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ABSTRACT

The increasing loss of biological diversity, resulting from the loss of genetic diversity, the extinction of species, and the destruction of ecosystems, constitutes a crisis of global proportions. The resources being committed to its resolution are relatively small. This document summarizes a survey of U.S.-based organizations involved in biological diversity research and conservation activities in developing countries in 1987. Institutions included the U.S. government, nongovernment organizations, universities, museums, zoos, charitable foundations, and botanical gardens. In all, 873 projects, active in 86 developing countries were analyzed. Included in this document are survey methods, results and conclusions; a copy of the questionnaire used; a list of classification categories used for activities; a list of the surveyed institutions; and a list of activities by region. Appendices constitute the bulk of the document. (CW)

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A Survey Of U.S.-Based Efforts To Research and Conserve Biological Diversity in Developing Countries

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Center for International Development and Environment

WORLD RESOURCES INSTITUTE
A Center for Policy Research

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J.N.A.

Executive Summary

The Center for International Development and Environment of the World Resources Institute conducted a survey of U.S.-based organizations to solicit information about the biological diversity research and conservation activities that they had undertaken in developing countries in 1987. Institutions surveyed included the U.S. government, non-governmental organizations, universities, museums, charitable foundations, botanical gardens, and zoos.

In all, 873 projects active in 86 developing countries were analyzed. Of the $37.5 million spent in 1987, over half went to projects in Latin America and the Caribbean; 16 percent to Asia; 12 percent to Africa; and 11 percent to projects that were global or multiregional in scale. Projects in Costa Rica, Panama, and Mexico received 30 percent of all funding.

When the projects were analyzed according to the focus of their activity, 44 percent of all funding was found to have been spent on projects that had research as their primary focus. Projects concerned with site and species management received 23 percent of all funding, with most of that being spent on protected areas. Fifteen percent of the funding went to education, which included technical and professional training. Support to developing country institutions amounted to 11 percent, and policy planning and analysis accounted for 6 percent of all funding.

The U.S. government contributed over half of the total funding, but oversaw only 24 percent of the total at the project stage. Non-governmental organizations were the largest implementors of projects, with universities and U.S. governmental agencies implementing the next largest portions.

The increasing loss of biological diversity, resulting from the loss of genetic diversity, the extinction of species, and the destruction of ecosystems, constitutes a crisis of global proportions. Relative to the magnitude of the problem, however, the resources being committed to its resolution are very small. The annual level of $37.5 million spent in 1987 is insufficient to ensure that the world's biological resources will be sustained for future generations.

The Center for International Development and Environment of the World Resources Institute carried out this survey with funding from the Bureau for Science and Technology, Office of Forestry, Environment and Natural Resources of the U.S. Agency for International Development through the Environmental Planning and Management Project.

Introduction

"The species extinction crisis is a threat to civilization second only to the threat of thermonuclear war," declared a group of nine prominent scientists in 1986.[1] The rapid and increasing loss of biological diversity—the variety and variability among living organisms and the ecological communities in which they live—is unprecedented in human history.[2] Of the 5 to 30 million species estimated to exist currently, [3,4] thousands are being eliminated every year through human intervention. Eventually, half of all species could be lost.[4,5] While some dispute this figure,[6] others believe it could be even higher.[1,7] Not only are species being lost, but entire ecosystems are also disappearing. For example, the Central American dry forest and the Atlantic coastal forest of Brazil have been reduced to tiny fragments of their original extent as a result of human activity. The area of the tropics deforested between 1955 and 1980 equaled that deforested in the preceding 200 years.[8] It has been estimated that an area the size of Pennsylvania is being deforested each year.[9] At the current estimated rate of at least 22 hectares per minute,[9] all remaining tropical forests could be cleared or seriously disturbed by the middle of the next century. However, other estimates as well as advances in satellite imagery indicate that the true rate is probably much higher and increasing.[10]

The reasons for this heavy loss are complex and varied; they include habitat destruction or alteration, overharvesting and microclimatic change resulting from altered land use patterns, and the increasing needs of a rapidly growing population.[11,12,13,14] The consequences of this loss are far-reaching. Species and ecosystems contribute a wide range of goods and services, from harvestable material and genetic resources to regulating the climate and rainfall patterns, to preventing erosion and sustaining water resources.[13,14]

The global effects of the loss of species and habitats may be felt by all nations. But, developing countries will be even more vulnerable to the localized effects because they tend to be more agrarian in nature and more directly dependent on renewable resources for their existence. Fisheries, forestry, tourism, and wildlife products are significant components of the economies of many tropical countries. Indeed, the conservation of species and ecosystems is the foundation for sustainable development—development that meets the needs of the present without compromising the ability of future generations to meet theirs—and for continued support of local populations.

The seriousness of the crisis has been recognized. A U.S. Strategy Conference on Biological Diversity was convened by the U.S. Agency for International Development (USAID) and others in 1981. A National Forum on Biodiversity, sponsored by the National Academy of Sciences and the Smithsonian Institution, was held in 1986. The U.S. Congress passed amendments to the Foreign Assistance Act in 1979 and 1986, calling for USAID to commit resources to respond to the problems of loss of biological diversity and tropical forests. The Consultative Group on Biological Diversity was established in 1987 to focus the efforts of the private sector on biodiversity conservation. Major articles have appeared in newspapers and magazines, including the naming of Earth as "Planet of the Year" by *TIME* magazine in 1989. In addition, in 1989, the USAID Bureau for Science and Technology's Office of Forestry, Environment and Natural Resources (S&T/FENR) began funding a multiyear multimillion dollar Conservation of Biological Diversity Project through a consortium of non-governmental conservation and development organizations (World Wildlife Fund-U.S., The Nature Conservancy, and World Resources Institute's Center for International Development and Environment).

However, despite the growing concern over the rapid loss of biological diversity and the increased recognition of its importance, there has been very little information on what public and private institutions in the United States and abroad are doing about studying and conserving these vital resources. To date, there has been no accounting of how much has been spent, what kinds of activities are being carried out, where, and by whom. In 1987, USAID/S&T/FENR decided to support a survey through the Environmental Planning and Management (EPM) Project of the Center for International Development and Environment of the World Resources Institute. Knowing what is being done, USAID reasoned, would help it plan its program, set funding priorities, and meet the requirements of the new legislation.

The results of the survey should help members of the research, conservation and development communities, scientists, and policymakers address a broad range of concerns, including:

- How much has been spent on researching and conserving biological diversity in developing countries?
- In which countries and regions has the money been spent?
- How much support was provided by agencies of the federal government, non-governmental organizations, foundations, universities, botanical gardens, arboreta and zoos?
- How much has been spent on research, protection, policy, education, and institutional support?

These are the types of questions that have been answered for projects in developing countries funded or implemented by U.S.-based institutions in 1987. It is hoped that the answers will stimulate interest in having these questions posed for other years and for the activities of international as well as U.S.-based institutions.

Methods

The Survey

One reason for conducting the survey was to determine what information was available and what level of effort would be necessary to collect and analyze reliable accurate information on the funding and implementation of biological diversity activities. The survey asked how much was spent in 1987, for what types of activities, and in what countries and regions.

The survey was designed to solicit project-level information on each project's title, implementor, type of activity, geographic location, and funders (*Appendix I*). The questionnaire also asked the respondent to indicate the biome—the complex of communities of living organisms characterized by distinctive climate and vegetation—in which the project took place. Some returned questionnaires specifying several biomes; in some cases where project summaries were used, it was not possible to classify the biome. For these reasons, biome information was not used in the analysis.

Information was collected from July 1988 through February 1989 for projects active in fiscal or calendar year 1987. This time period was chosen so that the most complete and most recent data could be collected. Information was collected from U.S.-based funders and implementors only. Organizations located in other countries and multilateral development agencies were not queried.

The project manager reviewed all of the data submitted to ensure that the projects were focused was on the biological diversity of developing countries, active in 1987, funded or implemented by a U.S. public or private institution, and within the classification system. Examples of projects that met the criteria for inclusion are a USAID-funded project in India to map wild relatives of economically important species and a World Wildlife Fund project in the Brazilian Amazon to determine the size of the minimum critical area needed to maintain biological diversity. Also included are U.S. National Park Service training for managers of parks in numerous developing countries and assistance in developing protected areas, and grants from U.S. foundations to organizations active in conservation in developing countries. Examples of projects that did not meet the criteria include agricultural development studies and forestry projects designed to harvest and use timber more efficiently.

The respondents were asked to rank the three predominant focal points of the project based on a hierarchical classification scheme. The categories were research, site or species management, policy planning and analysis, education, and institutional support. These catagories further divided to include such subcategories as basic ecosystem research, protected areas management, conservation law/regulatory policy, public awareness, and technical training. The full classification system and definitions used are outlined in Appendices I and II.

A few examples will illustrate the types of activities that fall within some of the subcategories. The Smithsonian Institution's Tropical Research Institute conducts numerous basic research projects at its station in Panama. World Wildlife Fund's (WWF-US) ethnobotanical studies in Madagascar, Peru, Thailand, and Cameroon help to document the cultural values of biological diversity. The Missouri Botanical Garden increases knowledge of plant species worldwide through its work in plant systematics. The planning and establishment of protected areas were carried out by the U.S. National Park Service (USNPS) in Burma, The Nature Conservancy (TNC) in the Yanachaga/Chemillen National Park in Peru, and others. The USNPS gives technical assistance worldwide for improving the management of protected areas, while the African Wildlife Foundation supports parks in Africa. Management of buffer zones around protected areas is carried out in Madagascar by the WWF-US and in Costa Rica by the Conservation Foundation. The work of University of Pennsylvania biologist Daniel Janzen in Costa Rica's Guanacaste National Park is an example of ecosystem restoration.

Activities that support conservation law and regulatory policy are exemplified by the W. Alton Jones Foundation's grant to the Conservation Treaty Support Fund to help implement of the Convention on International Trade in Endangered Species treaty. Conservation data centers in nine Latin and Caribbean countries supported by TNC are examples of projects that meet the definitions of the statistics and

indicators subcategory. Other activities in the policy planning and analysis category, such as a major USAID-funded International Union for Conservation of Nature and Natural Resources (IUCN) study of the development and use of economic incentives for conserving biological diversity, did not fit into any of the subcategories.

Among the public awareness projects was a grant to Fundación NeoTrópica to carry out a campaign to educate Costa Ricans about the importance and fragility of their tropical rain forests. Degree-oriented training included the University of Florida's program for studies in tropical conservation, which supports the training of developing-country students. WWF-US funded the development of a graduate course at the National University in Costa Rica. A large number of projects had major technical training components. The Organization for Tropical Studies conducts courses at its center in Costa Rica and the National Zoo's Wildlife Conservation and Management Training Program sponsors participants from many countries.

Examples of institutional support are the Jessie Smith Noyes Foundation's grants to the National Parks Foundation in Costa Rica and the Venezuelan Foundation for the Conservation of Biological Diversity (BIOMA) to finance the development of these organizations. WWF-US gave grants to non-governmental organizations (NGOs), such as the Wildlife Fund of Thailand and the Nigerian Conservation Foundation, for their program activities.

The Sample

The following types of U.S.-based institutions were surveyed for this report: departments and agencies of the U.S. government, non-governmental organizations, universities and research institutions, botanical gardens and zoos, museums, and foundations. International organizations (e.g., IUCN), multilateral donors (e.g., the World Bank), and foreign governments, agencies, and NGOs were not surveyed.

In order to invite the greatest possible participation, several non-random approaches were employed for collecting information. Data on the universities were gathered using two methods. First, the surveyor consulted the National Science Foundation's Division of Biotic Systems and Resources list of 1987 grants with foreign designations made to universities and other research institutions. The second method was through the Board for International Food and Agricultural Development of USAID, which sent the survey to 51 of its members and to the 44 members of the Organization for Tropical Studies, a consortium of universities active in tropical research.

Two other umbrella organizations distributed the survey to their member institutions. The Associated Natural Science Institutions queried their members, which include several major botanical gardens and natural history museums. The Association of Systematics Collections, which represents 72 universities, museums, and other research institutions, also polled its members.

Some activities funded by charitable foundations were identified with the assistance of the Consultative Group on Biological Diversity, which facilitates and promotes their efforts.

Other governmental and non-governmental organizations were contacted directly. Some completed the survey form, others returned project summaries, and one submitted a machine-readable database. A list of the organizations surveyed is contained in Appendix III.

Response rates were over 90 percent for governmental agencies, non-governmental organizations, and foundations. Response rates were lower for universities, museums, botanical gardens, and zoos. Institutions not in this survey will be included in future efforts.

Data Processing

As stated previously, information was collected on 873 projects and programs active in fiscal or calendar year 1987 from questionnaires, project summaries, and computer databases. Most of the data received were at the project level, although some were at the program level. Records were coded by the project manager by types of funders and implementors (such as foundations, non-governmental organizations, etc.), geographic region, and activity. In cases where information was not submitted in the questionnaire format, the project manager coded the activities according to the definitions provided.

Information was entered into uniform databases by type of submitting organization. Projects that were double-counted were removed and all sectoral databases were merged into one central database using the dBase III+ program. Database records were reviewed for accuracy by the institutions that submitted data.

Results

Worldwide, U.S.-based institutions spent $37.5 million in 1987 on 873 biodiversity research and conservation projects in 86 developing countries.

On a regional basis, the most money went to biodiversity research and conservation projects active in Central America in 1987 (*See Table 1*). The eight countries in Central America received $12.0 million, or 32 percent of all funding. Twenty-two percent of the total funding was given to projects in South America. When financing in Central and South America and the Caribbean is combined, 61 percent of the total was spent on activities in the neotropics. Asian projects received 16 percent ($6.1 million), and African projects 12 percent ($4.4 million). Projects that were global or multiregional in scope received 11 percent ($4.1 million).

On an individual country basis, the largest amount of money went to projects in Costa Rica (*Table 2*). A debt-for-nature swap initiated in Costa Rica in 1987 may have attracted some of these funds. Also, the Organization for Tropical Studies' center is located in that country. Almost 15 percent of the total, $5.8 million, was spent on 62 projects in Costa Rica, almost twice as much as the next largest recipient, Panama. Projects in Panama received $3.2 million; in Mexico, $2.1 million. Together, projects active in these three countries received 30 percent of all funding and these three countries hosted 18 percent. The budgets of two large research and training facilities, the Organization for Tropical Studies in Costa Rica and the Smithsonian's Tropical Research Institute in Panama, are included in these totals.

When the 10 countries with the most project funding are aggregated, they account for 52 percent of all funding and 38 percent of all projects. A list of project titles and implementors by region and country is contained in Appendix IV.

Projects were classified by their three main activities. Not all projects had a secondary or tertiary focus designated. In the analysis of funding by focus, all funds were allocated to the principal focus. Research projects received the most funding in 1987—$16.7 million, or 44 percent of the total (*Table 3-1*). Most of this was spent on basic research into the patterns and processes of species and ecosystems (*Table 3-2*). Systematics, or the inventory and classification of plant and animal species, was the principal focus of 122 projects, which spent a total of $3.5 million. Re-

Table 1. 1987 Funding Of Biological Diversity Research and Conservation Projects by Region

Region	No. of Projects	1987 Funding ($)	Percent of Total Funding
Africa	145	4,424,401	12
Asia	135	6,147,938	16
Latin America and the Caribbean:			
Caribbean	46	918,465	2
Central America	194	12,056,945	32
South America	208	8,401,128	22
Regionwide	60	1,503,459	4
Multiregional	85	4,070,854	11
TOTAL	873	37,523,190	100

Source: 1987 Biodiversity Projects Database. World Resources Institute's Center for International Development and Environment.

Table 2. Countries With The Most Funding For Biological Diversity Research and Conservation Projects in 1987

Country	No. of Projects	1987 Funding ($)	Percent of Total Funding
Costa Rica	62	5,776,760	15
Panama	38	3,236,826	9
Mexico	55	2,122,984	6
Brazil	51	1,957,080	5
Ecuador	25	1,878,386	5
Peru	31	1,069,575	3
Madagascar	20	1,051,677	3
Tanzania	18	892,092	2
Venezuela	18	800,776	2
Bolivia	14	763,851	2
TOTAL	332	19,550,007	52

Source: 1987 Biodiversity Projects Database. World Resources Institute's Center for International Development and Environment.

search was listed as the principal focus of 346 projects and as the secondary or tertiary focus of 72 others. For the purpose of this analysis, a distinction was not made between fundamental research and research with clear, direct conservation objectives.

Site or species management activities received the second largest amount of funding—$8.5 million. The 193 projects that listed site or species management as their principal focus accounted for 23 percent of all financing. Ninety-nine projects listed this as their secondary or tertiary focus. Over half of all funding in this area was spent on the planning, establishment, and management of protected areas (*Table 3-3*). Educational activities received $5.5 million, or almost 15 percent. Most of that amount was spent on technical training (*Table 3-4*). Grants for the support of institutions in developing countries totaled almost 12 percent of all funding, $4.4 million (*Table 3-1*). Policy planning and analysis activities received $2.3 million, or 6 percent of funding in 1987 (*Table 3-5*).

Table 4 compares funding by region and focus of activity. Two totals deserve special explanation. The total for education in Asia—$3.1 million—includes a large USAID and U.S. Fish and Wildlife Service (USFWS) Small Grants Project that supports a variety of activities, including many focusing on education. Because in the analysis all funds were allocated to the primary focus, all monies in the USAID and USFWS Small Grants Project were allocated to education. The total for research in Central America—$7.2 million—appears relatively high because it includes the budgets of the Organization for Tropical Studies in Costa Rica and the Smithsonian Institution's Tropical Research Institute in Panama. Together, these two research and training facilities account for almost $5 million. If the budgets for these two organizations were excluded from the analysis, the total for Central America would be roughly equal to those of the other regions.

Governmental agencies were the largest funders of biological diversity research and conservation projects in 1987, contributing 53 percent ($20.0 million) of the total (*Table 5*). These agencies included the National Science Foundation, USAID, the U.S. National Park Service, the Smithsonian Institution, the National Cancer Institute, the USFWS, and the Peace Corps. Of the governmental agencies, the National Science Foundation, USAID, and the Smithsonian Institution were the largest funders (*Table 6*). Non-governmental organizations gave $9.2 million, almost 24 percent of the total (*Table 5*), primarily through membership contributions and donations.

Table 3-1. 1987 Funding of Biological Diversity Research and Conservation Projects by Focus of Activity

Project Focus	1987 Funding ($)*	Percent of Funding	—No. of Projects— Primary Focus	Secondary or Tertiary Focus**
Research	16,664,752	44	346	72
Site/Species Management	8,544,109	23	193	99
Policy Planning/Analysis	2,284,852	6	62	22
Education	5,520,599	15	180	51
Institutional Support	4,445,878	12	87	14
Other	63,000	1	5	—
TOTAL	37,523,190	100	873	258

Source: 1987 Biodiversity Projects Database. World Resources Institute's Center for International Development and Environment.

* In this analysis, all funds were allocated to the principal focus.

** Not all survey responses listed a secondary or tertiary focus for each project.

Charitable foundations accounted for nearly 7 percent ($2.5 million) of the total budgeted to these projects. Fourteen percent of the total—$5.6 million—was raised through support from a mixture of funders, such as governmental and foundation sources. The totals for individual types of funders are slightly underreported due to their inclusion in the mixed-funder category.

Non-governmental organizations (NGOs) were the greatest implementors of funds (*Table 7*). Some 431 projects, worth $15.2 million, were carried out by a wide range of NGOs from both the United States and developing countries. These organizations raised this sum from grants, donations, and membership dues. In general, some NGOs implement projects directly; others give grants to individuals or organizations. The World Wildlife Fund, The Nature Conservancy, and Wildlife Conservation International are examples of organizations that actively promote and carry out a wide range of biodiversity activities through the efforts of their own staff, as well as through grants to scientists and conservation organizations in developing countries.

Universities conducted $8.9 million worth of projects (24 percent), principally in the area of research. Most of the projects undertaken by universities were funded by the National Science Foundation. Although the U.S. government was the largest funder of projects, its agencies handled only 24 percent of them. Instead, most governmental agencies rely on other institutions, primarily universities and NGOs, to manage much of the work on site. An exception is the National Park Service, which directs virtually all of its own projects. Botanical gardens and zoological parks administered $3.2 million-worth of the projects.

Table 3-2. 1987 Funding of Biological Diversity Projects: Research

Project Focus	1987 Funding ($)*	—No. of Projects— Primary Focus	Secondary or Tertiary Focus**
Basic Research	755,180	14	1
Ecosystem	4,597,543	32	7
Species	3,916,445	123	25
Applied Research			
Response to disturbance	1,667,712	15	9
Economic assess.	2,034,383	29	12
Cultural value of biodiversity	100,237	7	3
Systematics/Inventory	3,506,252	122	15
Other Research	87,000	4	—
TOTAL	16,664,752	346	72

Source: 1987 Biodiversity Projects Database. World Resources Institute's Center for International Development and Environment.

* In this analysis, all funds were allocated to the principal focus.

** Not all survey responses listed a secondary or tertiary focus.

Table 3-3. 1987 Funding of Biological Diversity Projects: Site or Species Management

Project Focus	1987 Funding ($)*	—No. of Projects— Primary Focus	Secondary or Tertiary Focus**
Protected Areas Planning and Establishment	2,349,129	46	15
Protected Areas Management	2,686,861	68	36
Protected Areas Buffer Zone Management	936,000	4	4
Ecosystem Restoration	65,000	2	—
In-Situ Species Management	900,718	43	30
Ex-Situ Species Management	407,509	8	4
Other***	1,198,892	22	10
TOTAL	8,544,109	193	99

Source: 1987 Biodiversity Projects Database. World Resources Institute's Center for International Development and Environment.

* In this analysis, all funds were allocated to the principal focus.

** Not all survey responses listed a secondary or tertiary focus.

*** Many projects combined several management activities.

Table 3-4. 1987 Funding of Biological Diversity Projects: Education

Project Focus	1987 Funding ($)*	—No. of Projects— Primary Focus	Secondary or Tertiary Focus**
Public Awareness	304,470	27	17
Curriculum Development	23,931	4	—
Degree Training	421,905	15	13
Technical Training	4,667,355	121	17
Other	102,938	13	4
TOTAL	5,520,599	180	51

Source: 1987 Biodiversity Projects Database. World Resources Institute's Center for International Development and Environment.

* In this analysis, all funds were allocated to the principal focus.

Table 3-5. 1987 Funding of Biological Diversity Projects: Policy Planning and Analysis

Project Focus	1987 Funding ($)*	—No. of Projects— Primary Focus	Secondary or Tertiary Focus**
Conservation Law/ Regulatory Policy	93,205	3	4
Economic Valuation	23,000	2	—
Statistics and Indicators	628,966	13	2
Project Evaluation	25,162	3	—
Environment Impact Assessment	—	—	—
Other	1,514,519	41	16
TOTAL	2,284,852	62	22

Source: 1987 Biodiversity Projects Database. World Resources Institute's Center for International Development and Environment.

* In this analysis, all funds were allocated to the principal focus.

** Not all survey responses listed a secondary or tertiary focus.

Table 4. 1987 Funding of Biological Diversity Research and Conservation Projects by Region and Focus of Activity

Region	Primary Focus —1987 Funding ($)* (Number of Projects)— Research	Site/Species Management	Policy Planning/ Analysis	Education	Institution Building	Other	TOTAL
Africa	1,629,974 (57)	2,265,679 (44)	22,000 (4)	366,747 (29)	140,001 (11)	—	4,424,401 (145)
Asia	1,755,060 (47)	868,321 (30)	250,065 (12)	3,102,810 (37)	171,682 (9)	—	6,147,938 (135)
Latin America & the Caribbean							
Caribbean	595,789 (19)	252,873 (14)	8,000 (5)	59,803 (6)	2,000 (2)	—	918,465 (46)
Central America	7,188,623 (90)	2,913,355 (44)	210,774 (6)	495,218 (40)	1,248,975 (14)	—	12,056,945 (194)
South America	3,727,955 (93)	1,482,367 (37)	459,713 (12)	732,385 (40)	1,998,708 (26)	—	8,401,128 (208)
Regionwide	593,911 (16)	173,861 (7)	159,500 (6)	152,636 (15)	360,551 (11)	63,000 (5)	1,503,459 (60)
Global	1,173,440 (24)	587,653 (17)	1,174,800 (17)	611,000 (13)	523,961 (14)	—	4,070,854 (85)
TOTAL	16,664,752 (346)	8,544,109 (193)	2,284,852 (62)	5,520,599 (180)	4,445,878 (87)	63,000 (5)	37,523,190 (873)

Source: 1987 Biodiversity Projects Database. World Resources Institute's Center for International Development and Environment.

* In this analysis, all funds were allocated to the principal focus.

Table 5. 1987 Funding for Biological Diversity Research and Conservation Projects by Type of Funder

Funder	No. of Projects	1987 Funding ($)	Percent of Total Funding
Foundations	56	2,491,771*	7*
Governments	367	20,002,869	53
Non-governmental Organizations (NGOs)	326	9,167,788	24
Mixed**	106	5,564,791	14
Other***	18	295,971	—
TOTAL	873	37,523,190	100

Source: 1987 Biodiversity Projects Database. World Resources Institute's Center for International Development and Environment.

* The total for foundations is underreported due to their appearance in the mixed funder category. The actual total contributed by foundations is $3,007,566—or 8 percent of the total funding.

** More than one source of funding identified.

*** Botanical Gardens and Zoos, Corporations, Museums, Private,

Table 6. Governmental Funding for Biological Diversity Research and Conservation Projects in 1987

Agency	No. of Projects	1987 Funding ($)	Percent of Total Funding
National Science Foundation	113	6,204,092	16.5
U.S. Agency for International Development	60	5,068,108	13.5
USAID and Fish and Wildlife Service	8	2,613,000	7.0
Smithsonian Institution	47	4,322,706	11.5
National Park Service	124	920,336	2.4
National Cancer Institute	4	641,365	1.7
Other	11	233,262	0.6
TOTAL	367	20,002,869	53.2

Source: 1987 Biodiversity Projects Database. World Resources Institute's Center for International Development and Environment.

Table 7. 1987 Funding for Biological Diversity Research and Conservation Projects by Type of Implementor

Implementor	No. of Projects	1987 Funding ($)	Percent of Total Funding
Botanical Gardens/Zoos	79	3,245,005	9
Governments	204	9,134,551	24
Museums*	16	472,853	1
Non-Governmental Organizations (NGOs)	431	15,160,336	40
Universities	136	8,883,657	24
Mixed/Other**	7	626,788	2
TOTAL	873	37,523,190	100

Source: 1987 Biodiversity Projects Database. World Resources Institute's Center for International Development and Environment.

* The Smithsonian Institution is included under governmental implementors.

** More than one type of implementor identified.

Conclusions

Concern over the "biodiversity crisis" is growing in the United States and abroad. In relation to the magnitude of the problem, however, the resources being committed to its solution are very small. Even in the countries with the most biodiversity project funding, the amounts are insufficient to address the problem. Elsewhere, they are even less adequate. Funding should depend not only on the biological resources of a country, but also on its commitment to conserving its biodiversity and its absorptive capacity for funds.

This survey measured the U.S. participation in efforts to research and conserve biological diversity in developing nations. The $37.5 million spent on these activities in 1987 is less than 10 percent of the annual budgets of American zoos and aquariums,[15] or a small fraction of the money that will be spent to map the human genome.[16] When compared to funds spent on other areas of research or development assistance, the amount spent on understanding the world's biological riches and sustaining them for humankind's future use is exceedingly small. If, as suggested by Dr. Peter Raven, Director of the Missouri Botanical Garden, it will be only 50 years before all tropical forests are lost or seriously disturbed, and only 25 years before one quarter of the current biological diversity disappears, then the time to commit the resources and political will is now.

In order to make wise use of the scarce resources available for solving the problem, a better understanding of what is being done is needed. This survey is a first step, a measure of one country's efforts in one year. What remains to be done is to monitor these efforts on a continuing basis and to measure the activities of other nations. Only multiyear information will detect trends in funding and activities and will make it possible to determine whether the rise in funding necessary to address the problem is occurring. By including other donors and other countries, new projects and regional emphases will emerge. For example, the European community tends to be more active in Africa, while U.S. efforts are concentrated more in Latin America.

USAID, in funding this survey, took the first step toward providing replies to the questions posed at the beginning: How much is being spent? Where? And for what types of activities? When these questions are answered, the foundation will be laid for wisely allocating research, conservation, and development funds for a sustainable future.

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Appendix 1

Questionnaire: Survey of Biological Diversity Research and Conservation Programs in Developing Countries in 1987

Questionnaire
Survey of Biological Diversity Research and Conservation Programs in Developing Countries in 1987

1. Reporting institution:
   Your name:

2. Project title:

3. Countries/region:

4. When was the project started?
   When will the project be completed?

5. What other organizations are participating in the project (United States and host country)?

6. Project manager:

7. Total funds allocated in fiscal/calender year 1987:
   Source(s) of funds:

8. Which biome classification(s) best describe where the activities take place? Please check no more than two of the following:

- ☐ tropical humid forests
- ☐ subtropical rainforests/woodlands
- ☐ evergreen sclerophyllous forest/scrub
- ☐ tropical dry/deciduous forest
- ☐ warm desert/semidesert
- ☐ mixed mountain systems with complex zonation
- ☐ mixed island systems
- ☐ river and lake systems
- ☐ coral reefs
- ☐ other coastal systems
- ☐ active in more than two biomes

9. How can the predominant foci of the program best be classified? (Rank the top 3; 1 = most important activity.) Descriptions of the categories are attached.

I. Research
   A. Basic
   - ☐ 1. Ecosystem
   - ☐ 2. Species

   B. Applied
   - ☐ 1. Response to disturbance
   - ☐ 2. Economic assessment of species or ecosystems
   - ☐ 3. Social and cultural dimension/value of biological diversity
   - ☐ 4. Other

- ☐ C. Systematics/Inventory

II. Site or Species Management
- ☐ A. Protected areas planning and establishment
- ☐ B. Protected areas management
- ☐ C. Protected areas buffer zone management
- ☐ D. Ecosystem restoration
- ☐ E. *In-situ* species management
- ☐ F. *Ex-situ* species management
- ☐ G. Other

III. Policy Planning and Analysis
- ☐ A. Conservation law/regulatory policy
- ☐ B. Macroeconomic valuation
- ☐ C. Statistics, indicators
- ☐ D. Program/project evaluation
- ☐ E. Environmental impact assessment
- ☐ F. Other

IV. Education
- ☐ A. Public awareness

- ☐ B. Curriculum development for primary and secondary schools
- ☐ C. Degree-oriented training
- ☐ D. Technical training

☐ V. Institutional Support

☐ VI. Other (explain)

10. Please attach a brief description of the project.

Appendix II

Categories Used to Classify Biological Diversity Research and Conservation Activities

Categories Used to Classify Biological Diversity Research and Conservation Activities

I. RESEARCH

A. Basic

1. *Ecosystem*—Research into the patterns and processes of ecosystems.

2. *Species.*

B. Applied

1. *Response to disturbance*—Research on the impacts that human or natural disturbances can have on biological diversity, including research and development of technologies to mitigate adverse impacts of human development activities.

2. *Economic assessment of species or ecosystems*—Quantification of the tangible values of conserving biological diversity, including screening for valuable new species and varieties.

3. *Social and cultural dimension/value of biological diversity*—Documentation of the anthropological, religious and social values of biodiversity, including assessment of the impact on society of a loss of biological diversity.

4. *Other.*

C. Systematics/Inventory—Identification and cataloging of species; includes traditional crop and animal varieties.

II. SITE OR SPECIES MANAGEMENT

A. *Protected areas planning and establishment*—Planning and establishing national parks, wildlife sanctuaries, biosphere reserves, or other land areas primarily to maintain the indigenous flora and fauna of the area.

B. *Protected areas management*—Management of national parks, wildlife, sanctuaries, biosphere reserves, or other land areas primarily to maintain the indigenous flora and fauna of the area.

C. *Protected areas buffer zone management*—Development and management of multiple-use areas in buffer zones surrounding protected areas and critical natural ecosystems; activities within these areas may include more effective and sustainable silvicultural, agricultural, and rangeland practices or the development of rural employment.

D. *Ecosystem restoration*—Restoration of the ecological integrity of ecosystems through restoring and maintaining indigenous flora and fauna to degraded areas.

E. *In-situ species management*—Establishment or enhancement of wild plant and animal management programs in their native habitats; not limited to protected areas.

F. *Ex-situ species management*—Wild plant and animal management in a setting other than the native habitat, examples include seed banks and captive breeding programs.

G. *Other.*

III. POLICY PLANNING AND ANALYSIS

A. *Conservation law/regulatory policy*—Actions that further government adoption of policies that promote the conservation of biological diversity.

B. *Macroeconomic valuation*—Development of natural resource accounting mechanisms that identify the value and contributions of biological diversity to the national economy.

C. *Statistics, indicators*—Developing, compiling, and maintaining statistics on the distribution, condition, and trends of biological resources.

D. *Program/project evaluation*—Assessing the effectiveness of programs'/projects' progress toward conservation objectives.

E. *Environmental impact assessment*—Assessments of the effects of development and construction activities on biological diversity.

F. *Other.*

IV. EDUCATION

A. *Public awareness*—Educational campaigns aimed at informing the public about conservation issues and the value of biological diversity.

B. *Curriculum development for primary and secondary schools.*

C. *Degree-oriented training*—University training either in-country or abroad.

STSTAMTICS & ZOOGEOG. OF SELECTED FISHES	UNIVERSITY OF CALIFORNIA AT LOS ANGELES -RAINBOTH
SUPPORT FOR INDIAN TO NATIONAL RESOURCE MANAGEMENT PROGRAM, CORNELL UNIVERSITY	WORLD WILDLIFE FUND-U.S.
CONSERVATION MEASURES FOR LION-TAILED MACAQUE	WILDLIFE CONSERVATION INTERNATIONAL
INDONESIA	
INDIGENOUS NGO SUPPORT IN WILDLIFE CONSERVATION	WORLD WILDLIFE FUND-U.S.
PUBLICATION OF SYSTEMATIC MONOGRAPH FRESHWATER FISHES BORNEO	CALIFORNIA ACADEMY OF SCIENCES
MIGRANT & RESIDENT BIRD CONSERVATION/INDONESIA (TRAINING)	WORLD WILDLIFE FUND-U.S.
ENVIRONMENTAL ECONOMICS & CONSERVATION INDONESIA	WORLD WILDLIFE FUND-U.S.
FELLOWSHIPS FOR INDONESIAN NATIONALS	WORLD WILDLIFE FUND-U.S.
IRIAN JAYA CONSERVATION PROGRAM, INDONESIA	WORLD WILDLIFE FUND-U.S.
MANAGEMENT OF LARGE MAMMALS, SUMATRA, INDONESIA	WORLD WILDLIFE FUND-U.S.
HIGH LEVEL POLICY ADVICE, INDONESIA	WORLD WILDLIFE FUND-U.S.
ORANGUTAN STUDIES, GUNUNG LEUSER RESERVE, INDONESIA	WORLD WILDLIFE FUND-U.S.
ECOLOGY & CONSERVATION OF PRIMATES IN PAGAI ISLANDS	WILDLIFE CONSERVATION INTERNATIONAL
ECOLOGY OF FRUIT-VERTEBRATE INTERACTIONS IN BORNEO	WILDLIFE CONSERVATION INTERNATIONAL
MALAYSIA	
DIPTEROCARP SEEDLING GROWTH	HARVARD UNIVERSITY - BAZZAZ
MAINTENANCE OF RARE TREE SPECIES IN RAIN FORESTS OF BORNEO	BOSTON UNIVERSITY -PRIMACK
WORKSHOP ON ECOLOGY OF TROPICAL FOREST PLANTS, MALAYSIA	UNIVERSITY OF MASSACHUSETTS, BOSTON- BEWN
MALAYSIAN FELLOWSHIP (MASTERS) AT INDIANA UNIVERSITY	WORLD WILDLIFE FUND-U.S.
ORANGUTAN CONSERVATION/SABAH, MALAYSIA	WORLD WILDLIFE FUND-U.S.
CONSERVATION RESEARCH PLANNING, TRAINING & CONSULTANCY, SUMATRAN RHINO/MALAYSIA	WORLD WILDLIFE FUND-U.S.

D. *Technical training*—Includes workshops, short courses, and other professional development programs.

V. **INSTITUTIONAL SUPPORT**—Financial or technical assistance for training, organizational development, or program implementation or improvement.

VI. **OTHER**

Appendix III

U.S. Institutions Surveyed for Biological Diversity Research and Conservation Activities in Developing Countries in 1987

U.S. Institutions Surveyed for Biological Diversity Research and Conservation Activities in Developing Countries in 1987

U.S. GOVERNMENTAL AGENCIES

- Agency for International Development
- Department of State/Man and the Biosphere
- Fish and Wildlife Service
- National Cancer Institute
- National Park Service
- National Science Foundation
- Peace Corps
- Smithsonian Institution

U.S.-BASED, INTERNATIONAL, NON-GOVERNMENTAL ORGANIZATIONS

- African Wildlife Foundation
- CARE
- Conservation Foundation
- Conservation International
- East West Center
- Island Resources Foundation
- National Geographic Society
- The Nature Conservancy International
- Wildlife Conservation International
- World Wildlife Fund-U.S.

PRIVATE FOUNDATIONS

- Members of the Consultative Group on Biological Diversity

UNIVERSITIES

- Board for International Food and Agricultural Development's selected members (51 universities)
- National Science Foundation grantees
- Organization for Tropical Studies' members (44 member institutions)

BOTANICAL GARDENS, ZOOS, MUSEUMS, AND RESEARCH INSTITUTIONS

- The Associated Natural Science Institutions (7 members)
- Association of Systematics Collections (72 U.S. members)
- Chicago Zoological Society
- Missouri Botanical Garden
- New York Botanical Garden

OTHER

- National Academy of Sciences

Appendix IV

1987 Biological Diversity Research and Conservation Activities and Implementors by Region and Country

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Appendix IV
1987 Biological Diversity Research and Conservation Activities and Implementors by Region and Country

Project Title	Project Implementor
AFRICA	
BOTSWANA	
WATTLED CRANE ECOLOGY/OKAVANGO DELTA/BOTSWANA	WORLD WILDLIFE FUND-U.S.
BURUNDI	
BURURI FOREST	PEACE CORPS
CONSERVATION EDUCATION	WILDLIFE CONSERVATION INTERNATIONAL
PARK MANAGEMENT WORKSHOP	PEACE CORPS
CAMEROON	
BOTANICAL EXPLORATION OF SW CAMEROON	MISSOURI BOTANICAL GARDEN-THOMAS
ETHNOBOTANICAL SURVEY, KORUP N.P., CAMEROON	WORLD WILDLIFE FUND-U.S.
BIODIVERSITY IN RESERVES OF CAMEROON	TEXAS A&M UNIVERSITY
CENTRAL AFRICAN REPUBLIC	
VEHICLE MAINTENANCE, DZANGA-SANGHA, CENTRAL AFRICAN REPUBLIC	WORLD WILDLIFE FUND-U.S.
CENSUS OF WESTERN LOWLAND GORILLA, CENTRAL AFRICAN REPUBLIC	WORLD WILDLIFE FUND-U.S.
LOWLAND GORILLAS IN SW CENTRAL AFRICAN REPUBLIC	WILDLIFE CONSERVATION INTERNATIONAL
ETHIOPIA	
ADVISOR TO ETHIOPIAN WILDLIFE CONSERVATION ORGANIZATION	WILDLIFE CONSERVATION INTERNATIONAL
GABON	
SELECTIVE MODE & ENVIRONMENT INFLUENCE IN THE ARANESE	UNIVERSITY OF TENNESSEE, KNOXVILLE - REICHERT

FAUNAL SURVEY, MOUKALABA RESERVE, GABON	WORLD WILDLIFE FUND-U.S.
EFFECT OF HABITAT DISTURBANCE ON WILDLIFE POPULATIONS	WILDLIFE CONSERVATION INTERNATIONAL
FOREST ELEPHANT SURVEYS	WILDLIFE CONSERVATION INTERNATIONAL

IVORY COAST

WEST AFRICAN MANATEE STATUS, BIOLOGY, CONS.	WILDLIFE CONSERVATION INTERNATIONAL

KENYA

WILDLIFE EXTENSION PROJECT IN KENYA	AF FUND FOR ENDANGERED WILDLIFE
RHINO CONSERVATION	WORLD WILDLIFE FUND-U.S.
MIDDLE MANAGEMENT DEVELOPMENT	U.S. NATIONAL PARK SERVICE
STRENGTHENING CONSERVATION EDUCATION THROUGH NATIONAL MUSEUMS OF KENYA	U.S. NATIONAL PARK SERVICE
PERSISTANCE OF A PASTORAL ECOSYS (COLLABORATIVE RESEARCH)	COLORADO STATE UNIVERSITY - ELLIS
TRAINING IN ENVIRONMENTAL EDUCATION AT WORLD WILDLIFE FUND-U.S. FOR KENYAN	WORLD WILDLIFE FUND-U.S.
MASAI MARA GAME RESERVE/ECOL MONITORING PROGRAM, KENYA	WORLD WILDLIFE FUND-U.S.
KENYA TREES, SHRUBS AND LIANAS/BOOK PUBLICATION	WORLD WILDLIFE FUND-U.S.
LAKE NAKURU ENVIRONMENTAL EDUCATION CENTER, KENYA	WORLD WILDLIFE FUND-U.S.
UVUMBUZI WILDLIFE CLUB SUPPORT, KENYA	WORLD WILDLIFE FUND-U.S.
KENYAN CONSULTANCY FOR WORLD WILDLIFE FUND EASTERN AFRICAN OFFICE	WORLD WILDLIFE FUND-U.S.
ZOOLOGICAL MONITORING IN AMBOSELI NATIQNAL PARK & KENYA PROGRAMS	WILDLIFE CONSERVATION INTERNATIONAL
FOREST DYNAMICS & PRIMATE POPULATIONS	WILDLIFE CONSERVATION INTERNATIONAL
TANA RIVER CRESTED MANGABEY	WILDLIFE CONSERVATION INTERNATIONAL
IMPACTS OF TRANSLOCATING BLACK RHINOS	WILDLIFE CONSERVATION INTERNATIONAL
MAIZE GERMPLASM CONSERVATION & EVALUATION	UNIVERSITY OF MARYLAND, COLLEGE PARK
ECOLOGY OF FLOODPLAIN FOREST ON THE TANA RIVER	MICHIGAN STATE UNIVERSITY
WILDLIFE CLUBS OF KENYA	AFRICAN WILDLIFE FOUNDATION

ECOLOGICAL TRAINING (NAIVASHA)	AFRICAN WILDLIFE FOUNDATION
NAIROBI EDUCATIONAL CENTER	AFRICAN WILDLIFE FOUNDATION
KENYA RHINO RESCUE PLAN	AFRICAN WILDLIFE FOUNDATION
AMBOSELI ELEPHANT PROJECT	AFRICAN WILDLIFE FOUNDATION
TSAVO PARK CAUSEWAY	AFRICAN WILDLIFE FOUNDATION
WILDLIFE EXTENSION PROJECT	AFRICAN WILDLIFE FOUNDATION
SHELDRICK APPEAL-FUND FOR PROJECTS	AFRICAN WILDLIFE FOUNDATION
FIELD OPERATIONS	AFRICAN WILDLIFE FOUNDATION
ECOLOGY & BEHAVIOR OF BABOONS IN AMBOSELI NATIONAL PARK	CHICAGO ZOOLOGICAL SOCIETY

LESOTHO

FOLLOW-UP WORKSHP-MANAGEMENT OF ARID & SEMI-ARID ECOSYSTEMS	U.S. NATIONAL PARK SERVICE

MADAGASCAR

MADAGASCAR WILDLANDS AND HUMAN NEEDS	WORLD WILDLIFE FUND-U.S.
HUMAN SETTLMENT, ENVIRONMENTAL CHANGE, & MEGAFAUNAL EXTINCTION IN MADAGASCAR	UNIVERSITY OF CONNECTICUT - DEWAR
MADAGASCAN TORTOISE RECOVERY/MADAGASCAR	WORLD WILDLIFE FUND-U.S.
ETHNOBOTANY OF THE MAHAFALY/SOUTHERN MADAGASCAR	WORLD WILDLIFE FUND-U.S.
MALAGASY FELLOWSHIPS TO GAROUA TRAINING CENTER/CAMEROON	WORLD WILDLIFE FUND-U.S.
PROPITHECUS MONKEY ECOL. & CONS/MADAGASCAR	WORLD WILDLIFE FUND-U.S.
ANALYSIS OF FOREST COVER CHANGES IN MADAGASCAR	WORLD WILDLIFE FUND-U.S.
CONSERVATION PROGRAM FOR SOUTHERN MADAGASCAR	WORLD WILDLIFE FUND-U.S.
RANOMAFANA REGION SURVEY, SOUTHEAST MADAGASCAR	WORLD WILDLIFE FUND-U.S.
MADAGASCAR EXPEDITION	WORLD WILDLIFE FUND-U.S.
BEZA MAHAFALY & ANDOHAHELA CONSERVATION PROJECTS, MADAGASCAR	WORLD WILDLIFE FUND-U.S.
FEEDING BEHAVIOR OF LEMUR CATTA	WILDLIFE CONSERVATION INTERNATIONAL
SURVEY OF BIODIVERSITY & ESTABLISHMENT OF NATIONAL	DUKE UNIVERSITY
MADAGASCAR TORTOISE RECOVERY	WILDLIFE CONSERVATION INTERNATIONAL
MADAGASCAR CONSERVATION PROJECT	MISSOURI BOTANICAL GARDEN

PARC DE TSIMBAZAZA	MISSOURI BOTANICAL GARDEN
FLORISTIC INVENTORY - NOSY MANGABI	MISSOURI BOTANICAL GARDEN
MAROJEJY MASSIF BOTANICAL INVENTORY	MISSOURI BOTANICAL GARDEN
BOTANICAL EXPLORATION IN MADAGASCAR	MISSOURI BOTANICAL GARDEN
BIOLOGICAL EVALUATION OF ANJOAOROBE FOREST	MISSOURI BOTANICAL GARDEN

MALAWI

FOLLOW UP WORKSHOP-MANAGEMENT OF ARID & SEMI-ARID ECOSYSTEMS	U.S. NATIONAL PARK SERVICE
PARKS & WILDLIFE PRE-SERV. TRAINING/PEACE CORPS	U.S. NATIONAL PARK SERVICE
STAFF HOUSING AT LAKE MALAWI NATIONAL PARK/MALAWI	WORLD WILDLIFE FUND-U.S.
FISHES OF LAKE MALAWI GUIDEBOOK/MALAWI	WORLD WILDLIFE FUND-U.S.
LAKE MALAWI NATIONAL PARK CONSERVATION AND DEVELOPMENT PROGRAM/MALAWI	WORLD WILDLIFE FUND-U.S.

MALI

NIGER DELTA WETLANDS CONSERVATION	INTERNATIONAL UNION FOR THE CONSERVATION OF NATURE AND NATURAL RESOURCES

MOROCCO

PARK SYSTEM PLANNING & DEVELOPMENT	U.S. NATIONAL PARK SERVICE
PEACE CORPS ASST. TO MOROCCO NATIONAL PARK DEVELOPMENT AND CONSERVATION	U.S. NATIONAL PARK SERVICE
U.S. MOROCCO TOURISM AGREEMENT: NATIONAL PARKS PROJECT	U.S. NATIONAL PARK SERVICE
EVALUATION OF PROPOSED WILDLIFE RESERVE	PEACE CORPS
FELLOWSHIP TO INTERNATIONAL COUNCIL BIRD PRESERVATION WORKSHOP	PEACE CORPS
TRAINING, PUBLIC AWARENESS, CURRICULUM DEVELOPMENT	PEACE CORPS

NAMIBIA

SYSTEMATICS OF LAPEIROUSIA IN NAMIBIA	MISSOURI BOTANICAL GARDEN

NIGERIA

NIGERIAN CONSERVATION FOUNDATION SUPPORT	WORLD WILDLIFE FUND-U.S.

RWANDA

SUPPORT TO KARISOKE MOUNTAIN GORILLA RESEARCH CENTER	CHICAGO ZOOLOGICAL SOCIETY
GEOGRAPHIC INFORMATION SYSTEM VOLCANOES NATIONAL PARK BIOSPHERE	U.S. NATIONAL PARK SERVICE
MOUNTAIN GORILLA EDUCATION PROGRAM, RWANDA	WORLD WILDLIFE FUND-U.S.
CONSERVATION OF AFROMONTANE FORESTS IN RWANDA	WORLD WILDLIFE FUND-U.S.
MOUNTAIN GORILLA PROJECT	AFRICAN WILDLIFE FOUNDATION
AFROMONATNE FOREST CONSERVATION	WILDLIFE CONSERVATION INTERNATIONAL

SIERRA LEONE

TIWAI ISLAND/GOLA FOREST CONSERVATION PROJECT	PEACE CORPS
SIERRA LEONE NATIONAL PARK DEVELOPMENT PROGRAM-PEACE CORPS	U.S. NATIONAL PARK SERVICE
OUTAMBA KILIMI N.P. DEVELOPMENT & EDUCATION PROJECT, SIERRA LEONE	WORLD WILDLIFE FUND-U.S.
CONSERVATION EDUCATION & AWARENESS PROGRAM IN SE SIERRA LEONE	WILDLIFE CONSERVATION INTERNATIONAL

SOMALIA

JUBA DEVELOPMENT ANALYTICAL STUDIES	GOVT OF SOMALIA

TANZANIA

WILDLIFE MGMT PROGRAM AT MWEKA COLLEGE	AFRICAN WILDLIFE FOUNDATION
INFO. EXCHANGE: COLLEGE OF AFRICAN WILDLIFE MANAGEMENT	U.S. NATIONAL PARK SERVICE
COOPERATION IN LIONS	UNIVERSITY OF MINNESOTA, ST PAUL - PACKER
CARBON & NUTRIENT DYNAMICS IN GRAZING ECOSYSTEM	SYRACUSE UNIVERSITY - MCNAUGHTON
SUPPORT FOR THE SELOUS GAME RESERVE/TANZANIA	WORLD WILDLIFE FUND-U.S.
ECOLOGICAL MONITORING, SERENGETI NATIONAL PARK, TANZANIA	WORLD WILDLIFE FUND-U.S.

TANZANIAN WILDLIFE RESEARCH & CONSERVATION	WILDLIFE CONSERVATION INTERNATIONAL
ECOLOGICAL MONITORING IN NGORONGORO CRATER	WILDLIFE CONSERVATION INTERNATIONAL
MWEKA WILDLIFE COLLEGE	AFRICAN WILDLIFE FOUNDATION
WILDLIFE CLUBS OF TANZANIA	AFRICAN WILDLIFE FOUNDATION
PARK GUIDEBOOKS	AFRICAN WILDLIFE FOUNDATION
CONSERVATION COORDINATION & TRAINING	AFRICAN WILDLIFE FOUNDATION
TARANGIRE PARK SUPPORT	AFRICAN WILDLIFE FOUNDATION
SELOUS GAME RESERVE SUPPORT	AFRICAN WILDLIFE FOUNDATION
SERENGETI PARK SUPPORT	AFRICAN WILDLIFE FOUNDATION
MANYARA HOSTEL	AFRICAN WILDLIFE FOUNDATION
MOBILE VEHICLE WORKSHOP	AFRICAN WILDLIFE FOUNDATION
MT. KANGA EXPEDITION	MISSOURI BOTANICAL GARDEN

TUNISIA

ENDANGERED SPECIES AND HABITAT STUDY	PEACE CORPS

UGANDA

UGANDA ENVIRONMENT SECRETARY TO U.S. TO DRAFT ENVIRONMENTAL PROTECTION ACT FOR UGANDA	CHICAGO ZOOLOGICAL SOCIETY
KIBALI FOREST PROJECT OF UGANDA	WILDLIFE CONSERVATION INTERNATIONAL
ECOLOGY & BEHAVIOR OF CHIMPS IN KIBALE FOREST	WILDLIFE CONSERVATION INTERNATIONAL
INFLUENCE OF LOGGING ON TROPICAL MOIST FOREST IN UGANDA	MICHIGAN STATE UNIVERSITY
WILDLIFE CLUBS OF UGANDA	AFRICAN WILDLIFE FOUNDATION
UGANDA INSTITUTE OF ECOLOGY	AFRICAN WILDLIFE FOUNDATION
KIBALI FOREST	AFRICAN WILDLIFE FOUNDATION

VARIOUS

PLANT SCREENING FOR ANTI-CANCER ACTIVITY FOR NATIONAL CANCER INSTITUTE	MISSOURI BOTANICAL GARDEN
MONITORING THE STATUS OF SPECIES IN AFROTROPICAL PROTECTED AREAS	U.S. NATIONAL PARK SERVICE
ACOUSTIC COMMUNICATION IN ELEPHANTS	WORLD WILDLIFE FUND-U.S.
AFRICAN ELEPHANT/RHINO SPEC GROUP SUPPORT	WORLD WILDLIFE FUND-U.S.

CONS. SCHOLARSHIP FUND FOR FIELD RESEARCH IN EAST AFRICA	WORLD WILDLIFE FUND-U.S.
WORLD WILDLIFE FUND EASTERN AFRICAN OFFICE SUPPORT	WORLD WILDLIFE FUND-U.S.
NORTHERN SERENGETI ECOSYSTEM PROJECT	WILDLIFE CONSERVATION INTERNATIONAL
PACHYDERM NEWSLETTER	WILDLIFE CONSERVATION INTERNATIONAL
PROJECTS IN AFRICA	WILDLIFE CONSERVATION INTERNATIONAL
ELEPHANT/RHINO CONSERVATION	AFRICAN WILDLIFE FOUNDATION
PROTECTED AREAS MANAGEMENT	AFRICAN WILDLIFE FOUNDATION

VARIOUS (KENYA, ETHIOPIA)

ECOSYS. VARIATION & PASTORAL ENERGY EXTRACTION PATTERNS	? - GAVIN

VARIOUS (KENYA, TANZANIA)

UNGULATE BEHAVIOR & ECOLOGY	PRINCETON - RUBENSTEIN

VARIOUS (MADAGASCAR & COMORO ISLAND)

ARALIACEAE OF MADAGASCAR & COMORO ISLAND	MISSOURI BOTANICAL GARDEN

VARIOUS (WEST AFRICA REGIONAL)

COASTAL RESOURCES CONSERVATION FOR WEST AFRICA REGION	U.S. NATIONAL PARK SERVICE

ZAIRE

SCHOLARSHIP FOR ZAIRIAN	CHICAGO ZOOLOGICAL SOCIETY
ITURI FOREST CONSERVATION, ZAIRE	WORLD WILDLIFE FUND-U.S.
BEHAVIOR & ECOLOGY OF OKAPI IN ITURI FOREST	WILDLIFE CONSERVATION INTERNATIONAL

ZAMBIA

FOLLOW-UP WORKSHOP: MANAGEMENT OF ARID & SEMI-ARID ECOSYSTEMS	U.S. NATIONAL PARK SERVICE
AERIAL SURVEY/LUANGWA INTEGRATED RESOURCES DEVELOPMENT PROJECT/ZAMBIA	WORLD WILDLIFE FUND-U.S.
LUPANDE DEVELOPMENT PROJECT, ZAMBIA	WORLD WILDLIFE FUND-U.S.
SAVE THE RHINO TRUST	AFRICAN WILDLIFE FOUNDATION

ZIMBABWE

ZIMBABWE ENFORCEMENT OFFICERS TO CITES SEMINAR	WORLD WILDLIFE FUND-U.S.

NILE CROCODILE MGMT & UTILIZATION WORKSHOP, ZIMBABWE	WORLD WILDLIFE FUND-U.S.
GENETIC ANALYSIS OF BLACK RHINO	WILDLIFE CONSERVATION INTERNATIONAL

ASIA

BHUTAN

DEVELOPMENT OF MANAS NATIONAL PARK, BHUTAN	WORLD WILDLIFE FUND-U.S.
ROYAL SOCIETY FOR PROTECTION OF NATURE SUPPORT, BHUTAN	WORLD WILDLIFE FUND-U.S.
DEPARTMENT OF FORESTS SUPPORT, BHUTAN	WORLD WILDLIFE FUND-U.S.
BHUTANESE TO SMITHSONIAN WILDLIFE MANAGEMENT TRAINING COURSE	WORLD WILDLIFE FUND-U.S.

BURMA

BURMA CONSERVATION PROFESSIONALS TRAINING	U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT, U.S. NATIONAL PARK SERVICE, WORLD WILDLIFE FUND-U.S.
CONSERVATION, RESOURCE MANAGEMENT & PROTECTED AREAS IN BURMA	U.S. NATIONAL PARK SERVICE
INTERNATIONAL SEMINAR ON NATIONAL PARKS & OTHER PROTECTED AREAS	U.S. NATIONAL PARK SERVICE
BURMESE TO SMITHSONIAN WILDLIFE MANAGEMENT & TRAINING COURSE	WORLD WILDLIFE FUND-U.S.

CHINA

CHINESE SCHOLAR TO STUDY DOLPHINS	CHICAGO ZOOLOGICAL SOCIETY
CHINESE NATIONAL SEMINAR ON NATIONAL PARK PLANNING AND MANAGEMENT	U.S. NATIONAL PARK SERVICE
NATIONAL PARK MANAGEMENT SEMINAR	U.S. NATIONAL PARK SERVICE
PROVINCIAL REG. EXCHANGE PROGRAM	U.S. NATIONAL PARK SERVICE
TECH. TRAINING IN PARKS/RESERVES MANAGEMENT	U.S. NATIONAL PARK SERVICE
U.S./CHINA NATURE CONSERVATION PROTOCOL	U.S. NATIONAL PARK SERVICE
U.S./CHINA PROG. ON NATURAL & CULTURAL HERITAGE	U.S. NATIONAL PARK SERVICE
EVOLUTIONARY HISTORY OF CATFISH FAMILY SILUIDAE	DUKE UNIVERSITY -LUNDBERG

MATHEMATICAL MODELS OF SELECTION & INTERACTION AMONG POPULATIONS	ROCKEFELLER UNIVERSITY -COHEN
SURVEY OF THE HERPETOFAUNA OF SOUTHWEST CHINA	FIELD MUSEUM OF NATURAL HISTORY
GOLDEN MONKEY STATUS & CONSERVATION, CHINA	WORLD WILDLIFE FUND-U.S.
GENETIC ANALYSIS OF THE GIANT PANDA, CHINA	WORLD WILDLIFE FUND-U.S.
MANAGEMENT PLAN FOR THE GIANT PANDA AND ITS HABITAT/CHINA	WORLD WILDLIFE FUND-U.S.
COMPILATION OF RED DATA BOOK—MAMMALIA/CHINA	WORLD WILDLIFE FUND-U.S.
GIANT PANDA CONS., CHINA: SPARE PARTS FOR JEEPS	WORLD WILDLIFE FUND-U.S.

COOK ISLANDS

EXTINCTION & BIOGEOGRAPHY OF INSULAR VERTEBRATES	UNIVERSITY OF THE STATE OF NEW YORK -STEADMAN

GUAM

RETURNING THE GUAM RAIL TO THE WILD	WILDLIFE CONSERVATION INTERNATIONAL

INDIA

GIANT SQUIRREL STUDY IN INDIA	CHICAGO ZOOLOGICAL SOCIETY
PLANT GENETIC RESOURCES	NATIONAL BOARD ON PLANT GENETIC RESEARCH (INDIA)
INDO-U.S. COOPERATIVE PROGRAM ON CONSERVATION OF BIOLOGICAL DIVERSITY	U.S. NATIONAL PARK SERVICE
INDO-U.S. WORKSHOP ON NATIONAL PARK INTERPRETATION	U.S. NATIONAL PARK SERVICE
INTRPRT PLAN & DESIGN: KANHA NP & NEW DELHI ZOO PARK	U.S. NATIONAL PARK SERVICE
NATIONAL/INTERNATIONAL HERITAGE IDENTIFICATION, CONSERVATION, & MANAGEMENT	U.S. NATIONAL PARK SERVICE
PERSONNEL TRAINING IN INDIA	U.S. NATIONAL PARK SERVICE
SPECIALIZED INTERPRETIVE TRAINING SERIES	U.S. NATIONAL PARK SERVICE
SPECIALIZED PARK TRAINING SERIES	U.S. NATIONAL PARK SERVICE
U.S./INDIA SEMINAR MARINE & COASTAL RESOURCES MANAGEMENT	U.S. NATIONAL PARK SERVICE
MOLEC. SYSTEMATICS OF GLYCINE (LEGUMINOSAE)	CORNELL UNIVERSITY -DOYLE

CONSERVATION & MANAGEMENT OF WETLAND AREAS IN SARAWAK	WILDLIFE CONSERVATION INTERNATIONAL

NEPAL

RHINO & WATER BUFFALO INTERACTIONS WITH HUMANS	SMITHSONIAN INSTITUTION, U.S. NATIONAL PARK SERVICE, WORLD WILDLIFE FUND-U.S.
CONSERVATION MESSAGE RADIO PROJECT	U.S. NATIONAL PARK SERVICE
IMPROVING THE VISITOR CENTRE, CHITWAN NATIONAL PARK, NEPAL	WORLD WILDLIFE FUND-U.S.
HIMALAYA RED PANDA PROJECT/NEPAL	WORLD WILDLIFE FUND-U.S.
SUPPORT FOR KING MAHENDRA TRUST FOR NATURE CONS., NEPAL	WORLD WILDLIFE FUND-U.S.
PARK/PEOPLE CONFLICT RESOLUTION IN ROYAL CHITWAN PARK/NEPAL	WORLD WILDLIFE FUND-U.S.
ROYAL CHITWAN NATIONAL PARK COMMUNITY FORESTRY PROGRAM/NEPAL	WORLD WILDLIFE FUND-U.S.
MUSK DEER ECOLOGY: NEPAL TRAINING PROJECT	WORLD WILDLIFE FUND-U.S.
SAURAHA RESEARCH STATION SUPPORT/CHITWAN NATIONAL PARK, NEPAL	WORLD WILDLIFE FUND-U.S.
WATER MONITORING ON NARAYANI RIVER, NEPAL	WORLD WILDLIFE FUND-U.S.
PRODUCTION OF RADIO BROADCAST EDUCATIONAL MATERIALS, NEPAL	WORLD WILDLIFE FUND-U.S.

NORTH YEMEN

RHINO HORN SUBSTITUTES STUDY	WORLD WILDLIFE FUND-U.S.

PAKISTAN

WILDLIFE CONSV. IN NORTHERN AREAS	U.S. NATIONAL PARK SERVICE
WORLD WILDLIFE FUND-PAKISTAN SUPPORT	WORLD WILDLIFE FUND-U.S.
DEVELOPMENT OF WILDLIFE CLUBS & CONSERVATION EDUCATION	UNIVERSITY OF MAINE - SHERBURNE

PAPUA NEW GUINEA

INTERSPECIFIC MOLECULAR VARIATION	UNIVERSITY OF TEXAS AT AUSTIN -HILLIS
PHLOGENY OF POLYALTHIN	? -ROGSTED
ALTERNATIVE EXPLAINATIONS FOR LEK DEVELOPMENT	UNIVERSITY OF CALIFORNIA, SAN DIEGO -BRADBURY
RESEARCH ON ENDANGERED BIRDS IN PAPUA, NEW GUINEA	WILDLIFE CONSERVATION INTERNATIONAL

PHILIPPINES

PHILIPPINES BIOLOGICAL DIVERSITY SURVEY & ACTION PLAN	INTERNATIONAL INSTITUTE FOR ENVIRONMENT AND DEVELOPMENT, HARIBON FOUNDATION
FUNCTIONAL MORPHOLOGY OF REPTILIA	UNIVERSITY OF MICHIGAN, ANN ARBOR -GANS
SURVEY OF MAMMALS OF CENTRAL PHILIPPINES	SMITHSONIAN -HEANEY
SURVEY OF LAND MOLLUSKS OF PALAWAN ISLAND	UNIVERSITY OF FLORIDA, FLORIDA STATE MUSEUM -THOMPSON
INTEGRATED PROTECTED AREAS SYSTEM DEVELOPMENT, PHILIPPINES	WORLD WILDLIFE FUND-U.S.
CYANIDE FISHERMEN RETRAINING PROJECT, PHILIPPINES	WORLD WILDLIFE FUND-U.S.
BIOLOGY & STATUS OF PHILIPPINE FLYING LEMUR	WILDLIFE CONSERVATION INTERNATIONAL
CONSERVATION OF PALAWAN PEACOCK PHEASANT	WILDLIFE CONSERVATION INTERNATIONAL
HABITAT REQUIREMENTS OF PHILIPPINE TASRSIER	WILDLIFE CONSERVATION INTERNATIONAL

SAUDI ARABIA

COASTAL MANAGEMENT & PROTECTED AREAS PROGRAM FOR RED SEA/SAUDI ARABIA	U.S. NATIONAL PARK SERVICE

SEYCHELLES

ALDABRA RESEARCH PROGRAM	SMITHSONIAN INSTITUTION

SRI LANKA

MAHAWELI ENVIRONMENT PROJECT	U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
ACADEMIC SEMINAR: ENVIRON. ENHANCE THROUGH COMM. DEVELOPMENT AND BUFFER ZONE	U.S. NATIONAL PARK SERVICE
CONSERVATION EDUCATION & INTERPRETATION WORKSHOP	U.S. NATIONAL PARK SERVICE

THAILAND

THAILAND BIODIVERSITY GRANTS	WORLD WILDLIFE FUND-U.S., WORLD WILDLIFE FUND-THAILAND, U.S. NATIONAL PARK SERVICE
FOLLOW-UP ACTIVITIES: COASTAL ZONE MANAGEMENT	U.S. NATIONAL PARK SERVICE
MARINE PARK PLANNING	U.S. NATIONAL PARK SERVICE
STATUS, OVERVIEW, AND NEEDS OF NATIONAL PARKS IN THAILAND	U.S. NATIONAL PARK SERVICE

SYSTEMATICS & ZOOGEOG. OF SELECTED FISHES	UNIVERSITY OF CALIFORNIA, LOS ANGELES -RAINBOTH
SHOREBIRD HUNTING EVALUATION/PATTANI	WORLD WILDLIFE FUND-U.S. PROVINCE, S. THAILAND
INSTITUTIONAL SUPPORT FOR WILDLIFE FUND, THAILAND	WORLD WILDLIFE FUND-U.S.
PARK PROTECTION, HUAI KHA KHAENG/THUNG YAI, THAILAND	WORLD WILDLIFE FUND-U.S.
WILDLIFE FUND THAILAND, INSTITUTIONAL SUPPORT	WORLD WILDLIFE FUND-U.S.
CULTURE & ENVIRONMENT SYMPOSIUM, THAILAND	WORLD WILDLIFE FUND-U.S.
ETHNOBOTANY & CONSERATION, HILL TRIBES, N. THAILAND	WORLD WILDLIFE FUND-U.S.
ECOLOGY & CONSERVATION OF FELID COMMUNITY IN KHAI KHAENG SANCTUARY	WILDLIFE CONSERVATION INTERNATIONAL
TRAINING IN FIELD BIOLOGY & CONS	WILDLIFE CONSERVATION INTERNATIONAL
LOWLAND RAINFOREST CONSERVATION IN PENINSULAR, THAILAND	WILDLIFE CONSERVATION INTERNATIONAL

TIBET

WILDLIFE SURVEYS	WILDLIFE CONSERVATION INTERNATIONAL

VARIOUS

PROTECTED AREA AND BIODIVERSITY	EAST-WEST CENTER
ASIAN ECONOMIC BOTANY	NEW YORK BOTANICAL GARDEN
SOUTHEAST ASIA OTTER CENSUS TECHNIQUES	CHICAGO ZOOLOGICAL SOCIETY
BIOLOGICAL DIVERSITY SMALL GRANTS PROGRAM	U.S. FISH & WILDLIFE SERVICE
REGIONAL ENVIRONMENTAL ACTIVITIES	U.S. FISH & WILDLIFE SERVICE
PLANT SCREENING FOR ANTI-CANCER ACTIVITY FOR NATIONAL CANCER INSTITUTE	UNIVERSITY OF ILLINOIS AT CHICAGO
BUDDHIST PERCEPTION OF NATURE	WORLD WILDLIFE FUND-U.S.
ASIANS TO INTERNATIONAL TROPICAL TIMBER ORGANIZATION (ITTO) MEETINGS, JAPAN	WORLD WILDLIFE FUND-U.S.
SURVEY & RECONNAISSANCE IN SOUTH ASIA	WILDLIFE CONSERVATION INTERNATIONAL
PROJECTS IN ASIA	WILDLIFE CONSERVATION INTERNATIONAL

VARIOUS (ASEAN)

MARINE PARK MANAGEMENT ASST.	U.S. NATIONAL PARK SERVICE

STRENGTHENING MANAGEMENT OF NGERUKEWID ISLANDS WILDLIFE RESERVE	U.S. NATIONAL PARK SERVICE
PLANNING FOR ASEAN HERITAGE PARKS	U.S. NATIONAL PARK SERVICE
PROTECTED AREA TRAINING & T.A.	U.S. NATIONAL PARK SERVICE
ASIAN INTERNATIONAL SEMINAR ON NATIONAL PARKS	U.S. NATIONAL PARK SERVICE

VARIOUS (CHINA, MALAYSIA)

CHINA & SE ASIA PROJECTS	SMITHSONIAN INSTITUTION

VARIOUS (S. PACIFIC)

PUBLICATION OF BIBLIOGRAPHY FOR BIOLOGICAL DIVERSITY AND TRAIN	U.S. NATIONAL PARK SERVICE
SUPPORT FOR SOUTH PACIFIC PARKS ADVISOR	WORLD WILDLIFE FUND-U.S.

VARIOUS (THAILAND,BURMA)

BIODIVERSITY PROJECT DEVELOPMENT & SUPPORT	EAST-WEST CENTER, U.S. NATIONAL PARK SERVICE

CARIBBEAN

ANGUILLA

ANGUILLA MARINE PROTECTED AREA FOLDER	U.S. NATIONAL PARK SERVICE

ANTILLES

LESSER ANTILLES PARKS & PROTECTED AREAS NETWORK NEWLETTER	U.S. NATIONAL PARK SERVICE

BAHAMAS

SPECIES DIVERSITY & ABUNDANCE IN INSULAR SYSTEMS	UNIVERSITY OF CALIFORNIA, DAVIS -SCHOENER
MANGROVE ECOSYSTEMS STUDY, BAHAMAS	WORLD WILDLIFE FUND-U.S.
BAHAMAS PARROT ECOLOGY & CONSERVATION	WILDLIFE CONSERVATION INTERNATIONAL

BARBADOS

PARK MANAGEMENT. TRAINING	U.S. NATIONAL PARK SERVICE
BIOGEOG. OF CORAL REEF FISHES	UNIVERSITY OF CALIFORNIA AT LOS ANGELES -SHULMAN

DOMINICA

FOREST RESOURCE CONSERVATION & DEVELOPMENT, DOMINICA	WORLD WILDLIFE FUND-U.S.

DOMINICAN REPUBLIC

SUSTAINABLE USE & CONSERVATION OF WILDLIFE SYMPOSIUM, DOMINICAN REPUBLIC	WORLD WILDLIFE FUND-U.S.

GRENADA

VISITOR CENTER DEVELOPMENT	U.S. NATIONAL PARK SERVICE
BIOGEOG. OF CORAL REEF FISHES: ANALYSIS OF DNA	UNIVERSITY OF CALIFORNIA AT LOS ANGELES -SHULMAN

HAITI

HAITI NATIONAL MARINE PARK	WORLD WILDLIFE FUND-U.S.

JAMAICA

DEVELOPMENT OF MARINE PARKS	U.S. NATIONAL PARK SERVICE
VOLUNTEER IN THE PARKS (VIP) ON-THE-JOB TRAINING	U.S. NATIONAL PARK SERVICE
ECOL OF MIGRATORY PASSERINE BIRDS ON BREEDING AND WINTERING AREA	DARTMOUTH COLL -HOLMES
TESTING COEVOLUTIONARY HYPOTHESIS ON ECOLOGICAL & EVOLUTIONARY TIME SCALE	UNIVERSITY OF MICHIGAN, ANN ARBOR -KITCHELL
BIOSYSTEMATICS OF ISOETES MEXICANA COMPLEX	MIAMI UNIVERSITY, OXFORD -HICKEY
CONSTRAINTS ON EVOLUTION OF BRACHIOPODS	UNIVERSITY OF CHICAGO -LABARBERA

MARTINIQUE

BIOGEOGRAPHY OF CORAL REEF FISHES: ANALYSIS OF DNA	UNIVERSITY OF CALIFORNIA AT LOS ANGELES -SHULMAN

NETH. ANTILLES

CONSERVATION DATA CENTER	THE NATURE CONSERVANCY

ST. LUCIA

COASTAL RESOURCE MANAGEMENT PROGRAM, SOUTHEAST COAST, ST. LUCIA	WORLD WILDLIFE FUND-U.S.

ST. VINCENT & THE GRENADINES

DEVELOPMENT OF MARINE PARKS	U.S. NATIONAL PARK SERVICE

TRINIDAD AND TOBAGO

CONSERVATION ASSISTANCE AND PROTECTED AREA DEVELOPMENT	U.S. NATIONAL PARK SERVICE
EVOLUTIONARY PATTERNS IN TERTIAR REEF CORALS	UNIVERSITY OF IOWA -FOSTER

STUDIES OF PLATYNINE CARBID BEETLES	CORNELL UNIVERSITY -LEIBHERR
SELECTION FOR COLOR PATTERNS IN POECILIA	UNIVERSITY OF CALIFORNIA, SANTA BARBARA -ENDLER
LIFE HISTORY ADAPTATIONS IN POECILIID FISH	UNIVERSITY OF CALIFORNIA, RIVERSIDE -REMICK

VARIOUS

GENETICS OF TROPICAL FRUIT BATS	UNIVERSITY OF NEBRASKA STATE MUSEUM
CARIBBEAN BASIN PROGRAM DEVELOPMENT	U.S. NATIONAL PARK SERVICE
CARIBBEAN MARINE PROTECTED AREAS INVENTORY & ANALYSIS	U.S. NATIONAL PARK SERVICE
CARGAGENA CONVENTION (DRAFT PROTOCOL FOR PROTECTED AREAS)	U.S. NATIONAL PARK SERVICE
DRAFT PROTECTED AREA & WILDLIFE PROTOCOL FOR THE CARTAGENA CONVENTION	U.S. NATIONAL PARK SERVICE
EASTERN CARIBBEAN NATIONAL AREA MANAGEMENT PROG. ASST.	U.S. NATIONAL PARK SERVICE
PROTOCOL ON PROTECTED AREAS AND WILDLIFE IN THE CARIBBEAN	U.S. NATIONAL PARK SERVICE
WORKSHOP ON CORAL REEF PROTECTED AND REHABILITATION	U.S. NATIONAL PARK SERVICE
RESOURCE MANAGEMENT GRADUATE COURSE/UNIVERSITY OF THE WEST INDIES	WORLD WILDLIFE FUND-U.S.
CORAL REEF TEACHERS KIT, CARIBBEAN	WORLD WILDLIFE FUND-U.S.
BIOGEOGRAPHY OF THE TROPICS	TEXAS A&M UNIVERSITY

VARIOUS (ANTIGUA, BARBUDA)

EVOLUTIONARY PATTERNS IN REEF CORALS	UNIVERSITY OF IOWA -FOSTER

VIRGIN ISLANDS

SEABIRD STUDY/BRITISH VIRGIN ISLANDS	WORLD WILDLIFE FUND-U.S.
SEA TURTLE STUDY/BRITISH VIRGIN ISLANDS	WORLD WILDLIFE FUND-U.S.
TRAIL IMPROVEMENTS-SAGE MOUNTAIN NATIONAL PARK/BRITISH VIRGIN ISLANDS	WORLD WILDLIFE FUND-U.S.
BOTANIC GARDENS PROJECT/BRITISH VIRGIN ISLANDS	WORLD WILDLIFE FUND-U.S.
NATIONAL PARKS TRUST NEWSLETTER, BRITISH VIRGIN ISLANDS	WORLD WILDLIFE FUND-U.S.
HUMPBACK WHALE EDUCATIONAL BROCHURE FOR BRITISH VIRGIN ISLANDS	WORLD WILDLIFE FUND-U.S.

WEST INDIES

CONSERVATION & STATUS OF W. INDIAN RACERS (SNAKE)	MILWAUKEE PUBLIC MUSEUM

CENTRAL AMERICA

BELIZE

HOL CHAN MARINE PARK	WORLD WILDLIFE FUND-U.S., BELIZE AUDUBON SOCIETY
CARIBBEAN CORAL REEF ECOSYSTEMS	SMITHSONIAN INSTITUTION
PARK MANAGER TRAINING WORKSHOP	U.S. NATIONAL PARK SERVICE
HOST-PARASITE COEVOLUTION IN POCKET GOPHERS	LOUSIANA STATE UNIVERSITY, BATON ROUGE -ZINK
CONSERVATION EDUCATION IN BELIZE	WORLD WILDLIFE FUND-U.S.
BELIZEAN TEACHERS TO CARIBBEAN REEFS & RAINFOREST COURSE	WORLD WILDLIFE FUND-U.S.
EFFECTS OF FISHING & PROTECTIVE MANAGEMENT ON CORAL REEFS IN BELIZE	WILDLIFE CONSERVATION INTERNATIONAL
CONSERVATION OF CRITICAL MARSH & LOWLAND HABITAT	WILDLIFE CONSERVATION INTERNATIONAL
CONSERVATION EDUCATION	WILDLIFE CONSERVATION INTERNATIONAL

COSTA RICA

GUANACASTE NATIONAL PARK EDUCATION PROJECT	THE NATURE CONSERVACY INTERNATIONAL
MANAGEMENT STUDY OF NATIONAL PARKS IN COSTA RICA	FUNDACION NEOTROPICA
SUPPORT FOR GUANACASTE NATIONAL PARK	FOUNDATION DE PARQUES NATIONALES
NATURAL RESOURCES COURSES IN SPANISH	ORGANIZATION FOR TROPICAL STUDIES
PUBLIC AWARENESS CMPGN ON TROPICAL RAIN FORESTS	FUNDACION NEOTROPICA
COSTA RICAN WILDLANDS CONSERVATION PROGRAM	FUNDACION NEOTROPICA
TRAINING AND RESEARCH AT GUANACASTE NATIONAL PARK	THE NATURE CONSERVANCY
COURSES IN TROPICAL AGRICULTURAL ECOLOGY & NATURAL RESOURCE MANAGEMENT	ORGANIZATION FOR TROPICAL STUDIES
BOSCOSA SUSTAINABLE FORESTRY DEMONSTRATION PROJECT	CONSERVATION FOUNDATION
STUDY OF LAURACEAE IN COSTA RICA	FIELD MUSEUM OF NATURAL HISTORY

BOSCOSA (CORCAVADO NATIONAL PARK BUFFER ZONE)	WORLD WILDLIFE FUND-U.S., NEOTROPICA FOUNDATION
ORGANIZATION FOR TROPICAL STUDIES TRAINING COURSE	ORGANIZATION FOR TROPICAL STUDIES
DEVELOPMENT OF COSTA RICA NATIONAL PARK OPERATIONAL POLICY GUIDELINES	U.S. NATIONAL PARK SERVICE
INTERNATIONAL SEMINAR ON NATIONAL PARKS & OTHER PROTECTED AREAS	U.S. NATIONAL PARK SERVICE
MANAGERIAL GRID TRAINING, PHASE II	U.S. NATIONAL PARK SERVICE
FIELD METABOLIC RATES & GUILD DYNAMICS OF TROPICAL HUMMINGBIRDS	UNIVERSITY OF FLORIDA -FEINSINGER
SPECIES INTERACTIONS: TROPICAL HUMMINGBIRD POLLINATED	UNIVERSITY OF FLORIDA -FEINSINGER
IMPACT OF HERBIVORES ON COSTA RICAN DECIDUOUS FOREST	UNIVERSITY OF PENNSYLVANIA -JANZEN
NUTRIENT CYCLING & ECOSYSTEM SUCCESSION: CANOPY COMMUNITIES	UNIVERSITY OF CALIFORNIA AT SANTA BARBARA -NADKARNI
CHEMICAL ECOLOGY IN ATTINE-FUNGUS MUTUALISM	UNIVERSITY OF IOWA -WEIMER
MANUAL TO PLANTS OF COSTA RICA	MISSOURI BOTANICAL GARDEN -GRAYUM
MOTH FAUNA OF COSTA RICA	UNIVERSITY OF PENNSYLVANIA -JANZEN
MONOGRAPH OF NEOTROPICAL ZAMIACEAE	BARNARD COLLEGE -STEVENSON
SYST., MORPH., & ECOL. STUDY OF SALAMANDERS	UNIVERSITY OF CALIFORNIA BERKELEY -WAKE
HOST-PARASITE COEVOLUTION IN POCKET GOPHERS	LOUSIANA STATE UNIVERSITY, BATON ROUGE -ZINK
ECOSYSTEM PROCESSES IN TREEFAL GAPS OF LOWLAND TROPICAL RAIN FORESTS	DUKE UNIVERSITY -STONE
BIOLOG CONTROL OF SOIL CHARGE & NUTRIENTS IN HUMID TROPICS	DUKE UNIVERSITY -STONE
SUPPORT FOR LA SELVA BIOLOG STATION	DUKE UNIVERSITY -STONE
LABORATORY FACILITIES FOE ECOLOGY RESEARCH IN TROPICAL RAIN FORESTS	DUKE UNIVERSITY -STONE
COSTA RICA YOUTH CONGRESS ON ENVIRONMENTAL PROBLEMS	WORLD WILDLIFE FUND-U.S.
SAVING THE MONTEVERDE CLOUD FOREST/COSTA RICA	WORLD WILDLIFE FUND-U.S.
CORCOVADO NATIONAL PARK MANAGEMENT/COSTA RICA	WORLD WILDLIFE FUND-U.S.
LA AMISTAD NATIONAL PARK/PURCHASE OF IN-HOLDINGS, COSTA RICA	WORLD WILDLIFE FUND-U.S.
GANDOCA LAND TITLING PROJECT/COSTA RICA	WORLD WILDLIFE FUND-U.S.

FIRE PROTECTION PLAN/LOMAS BARBUDAL RESERVE, COSTA RICA	WORLD WILDLIFE FUND-U.S.
RESTORATION OF WHITE-TAILED DEER IN COSTA RICA	WORLD WILDLIFE FUND-U.S.
EVALUATION OF SMALL SCALE FORESTRY IN COSTA RICA	WORLD WILDLIFE FUND-U.S.
PALO VERDE NATIONAL PARK, COSTA RICA: PURCHASE OF IN-HOLDINGS	WORLD WILDLIFE FUND-U.S.
GUANACASTE NATIONAL PARK, COSTA RICA	WORLD WILDLIFE FUND-U.S.
BACTERIA EFFECTS ON OLIVE RIDLEY HATCH SUCCESS, COSTA RICA	WORLD WILDLIFE FUND-U.S.
NATIONAL CONSERVATION STRATEGY FOR COSTA RICA	WORLD WILDLIFE FUND-U.S.
PARK CONSOLIDATION, COSTA RICA	WORLD WILDLIFE FUND-U.S.
SQUIRREL MONKEY CONSERVATION, COSTA RICA	WORLD WILDLIFE FUND-U.S.
PAT MORTON TO LATIN AMERICAN MAMMALOGY CONFERENCE, CANCUN	WORLD WILDLIFE FUND-U.S.
LOMAS BARBUDAL BIOLOGICAL RESERVE STUDIES	TEXAS A&M UNIVERSITY
TROPICAL BIOLOGY RESEARCH & STUDY	ORGANIZATION FOR TROPICAL STUDIES
CADDISFLY FAUNA OF COSTA RICA	UNIVERSITY OF MINNESOTA
CONSERVATION DATA CENTER	THE NATURE CONSERVANCY & FOUNDATION NEOTROPICA
COSTA RICA NATIONAL PARKS CAMPAIGN	THE NATURE CONSERVANCY & FOUNDATION NEOTROPICA
GUANACASTE NATIONAL PARK EDUCATION PROJECT	THE NATURE CONSERVANCY & FOUNDATION NEOTROPICA
TRAINING & RESEARCH AT GUANACASTE NATIONAL PARK	THE NATURE CONSERVANCY & FOUNDATION NEOTROPICA
GUANACASTE NATIONAL PARK LAND ACQUISITION	THE NATURE CONSERVANCY & OTHERS
LA ZONA PROTECTORA PROTECTION & MANAGEMENT	THE NATURE CONSERVANCY & OTHERS
ENVIRONMENTAL NGO SUPPORT & DEVELOPMENT	THE NATURE CONSERVANCY & FOUNDATION NEOTROPICA
COSTA RICA COUNTRY PROGRAM - LA AMISTAD	CONSERVATION INTERNATIONAL
TROPICAL FORESTS -COSTA RICA	MISSOURI BOTANICAL GARDEN
FELLOWSHIP TO WORLD WILDLIFE CONF.	PEACE CORPS
SPECIATION IN SOCIAL HYMONOPT.	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
TROPICAL SPIDERS	SMITHSONIAN TROPICAL RESEARCH INSTITUTE

EL SALVADOR

VEHICLE REPAIR FOR EL SALVADOR NATIONAL PARKS SERVICE	WORLD WILDLIFE FUND-U.S.

GUATEMALA

ENVIRONMENTAL EDUCATION & BOTANICAL GARDEN DEVELOPMENT	U.S. NATIONAL PARK SERVICE
PARK RANGER TRAINING COURSE	U.S. NATIONAL PARK SERVICE
SYSTEMATIC STUDY OF ANNUAL MUHLENBERGIA	WASHINGTON STATE UNIVERSITY -GILMARTIN
GUATEMALA EDUCATION SLIDE RESOURCE KIT	WORLD WILDLIFE FUND-U.S.
SLIDE PROJECTOR FOR LA AURORA ZOO, GUATEMALA	WORLD WILDLIFE FUND-U.S.
GUATEMALAN TO WORLD RESEARCH INSTITUTE NGO MEETING, PANAMA	WORLD WILDLIFE FUND-U.S.
PROTECTED AREA ADMINISTRATORS WORKSHOP GUATEMALA	WORLD WILDLIFE FUND-U.S.
WILDLANDS PLANNING WORKSHOP	PEACE CORPS

HONDURAS

ENVIRONMENTAL EDUCATION WORKSHOP	PEACE CORPS
MARINE PARK T.A.-BAY ISLANDS SURVEY & RECOMMENDATIONS	U.S. NATIONAL PARK SERVICE
RIO PLATANO RESERVE PLANNING WORKSHOP, HONDURAS	WORLD WILDLIFE FUND-U.S.
ENVIRONMENTAL EDUCATION TRAINING WORKSHOP, LA TIGRA NP, HONDURAS	WORLD WILDLIFE FUND-U.S.
EGG COLLECTING IMPACT ON OLIVE RIDLEYS, HONDURAS	WORLD WILDLIFE FUND-U.S.
ENV. ED. SLIDE SHOW	PEACE CORPS
ENV. ED. WORKSHOP	PEACE CORPS
WILDLANDS PLANNING & MANAGEMENT TRAINING	PEACE CORPS

MEXICO

STUDIES IN TROPICAL CONSERVATION	UNIVERSITY OF FLORIDA FOUNDATION
ARRECIFE ALACRAN (SCORPION REEF) MARINE RESERVE PROPOSAL	U.S. NATIONAL PARK SERVICE
BOUNDARY EFFECTS PILOT STUDY	U.S. NATIONAL PARK SERVICE
OZILAM COASTAL RESERVE	U.S. NATIONAL PARK SERVICE
REF. TEXT ON PINACATE-GRANT DESIERTO	U.S. NATIONAL PARK SERVICE

SECOND SEDUE MID-LEVEL PARK MANAGER TRAINING	U.S. NATIONAL PARK SERVICE
SONORAN DESERT BIOSPHERE RESERVE WORKSHOP	U.S. NATIONAL PARK SERVICE
USAMACINTA DELTA WETLANDS BIOSPHERE RESERVE TRAINING AND TA	U.S. NATIONAL PARK SERVICE
USAMACINTA DELTA WETLANDS PROTECTION	U.S. NATIONAL PARK SERVICE
VARIATION IN PLANT-ANIMAL INTERACTION: CONSEQUENCES	UNIVERSITY OF CHICAGO -SCHEMKE(?)
SYSTEMATICS OF GAUDICHAUDIA & RELATED GENERA	UNIVERSITY OF MICHIGAN ANN ARBOR -ANDERSON
SYSTEMATICS OF MEXICAN ACANTHACEAE	CALIFORNIA ACADEMY OF SCIENCE -DANIEL
FLORA MESOAMERICA - PHASE 2	MISSOURI BOTANICAL GARDEN -DAVIDSE
SYSTEMATICS OF ANNUAL MUHLENBERGIA	WASHINGTON STATE UNIVERSITY -GILMARTIN
CHROMOSOMAL & FLORAL DATA FOR BROMELIACEAE STUDIES	WASHINGTON STATE UNIVERSITY -GILMARTIN
BIOSYSTEMATIC STUDIES OF ISOETES MEXICANA COMPLEX	MIAMI UNIVERSITY OXFORD -HICKEY
SYST. & EVOLUTIONARY RELATIONSHIP OF COGENERS WITH DIFF. LARVAL DEVELOPMENT	LEHIGH UNIVERSITY -HOAGLAND
SYSTEMATICS OF... NET-WING MIDGES	L.A. CITY MUSEUM NATURAL HISTORY
STUDIES OF PLATYNINE CARABID BEETLES	CORNELL UNIVERSITY -LIEBHERR
BIOSYSTEMATICS OF COMPOSITAE	UNIVERSITY OF TEXAS AT AUSTIN -MABRY
VASCULAR PLANT FLORA OF JALISCO	UNIVERSITY OF MICHIGAN, ANN ARBOR -MCVAUGH
ORIGINS & EVOLUTION OF DUP. ENZYME LOCI IN FISHES	UT ANDERSON HOSP -MORIZOT
NORTH AMERICAN GRASSHOPPER SPECIES. PART 3	ACAD NAT SCI OF PHILA -OTTE
REVISED STUDIES OF PHLINE PLANT BUGS	AMERICAN MUSEUM NATURAL HISTORY -SCHUH
SYST. & EVOLUTION IN SALIX SECTION LONGIFOLIAE	WASHINGTON STATE UNIVERSITY -SOLTIS
EVOLUTION OF ETHOLOGICAL ISOLATION (COLLABORATIVE RESEARCH)	UNIVERSITY CHICAGO -ARNOLD
GENETIC TRANSMISSION IN POPULATIONS	UNIVERSITY OF CALIFORNIA RIVERSIDE -CLEGG
PHYSIOLOGY-ECOLOGY CORRELATES... NEOTROPICAL AVIAN FRUGIVORES	UNIVERSITY OF FLORIDA -FEINSINGER
PERICENTRIC INVERSION... POPULATIONS OF PEROMYSCUS	TEXAS A&M UNIVERSITY -GREENBAUM

DROSOPHILA CUTICULAR HYDROCARBS & BEHAVIORAL RESPONSE	ARIZONA STATE UNIVERSITY -MARKOW
GENETIC ANALYSIS OF A MARINE ISOPOD	UNIVERSITY OF CALIFORNIA AT RIVERSIDE -SASSMAN
EVOLUTION OF ETHOLOGICAL ISOLATION (COLLABORATIVE RESEARCH)	SMITH COLLEGE -TILLEY
SPATIAL POSITION & FITNESS IN COLONIAL SPIDERS	UNIVERSITY OF CINCINNATI -UETZ
SEA TURTLE CONSERVATION,MEXICO	WORLD WILDLIFE FUND-U.S.
SIERRA DE MANANTLAN PLANNING & MANAGEMENT PROGRAM/MEXICO	WORLD WILDLIFE FUND-U.S.
PROTECTED AREAS MANAGEMENT COURSE, MEXICO	WORLD WILDLIFE FUND-U.S.
PALM STUDY & MANAGEMENT EVALUATION IN SIAN KA'AN RESERVE, MEXICO	WORLD WILDLIFE FUND-U.S.
BIOL STUDIES/CONSERV EFFORTS TUXTLA MOUNTAINS, SOUTH VERACRUZ, MEXICO	WORLD WILDLIFE FUND-U.S.
MIGRATORY BIRDS/AGRICULTURAL PRACTICES, YUCATAN, MEXICO	WORLD WILDLIFE FUND-U.S.
WETLAND CONSERVATION SYMPOSIUM IN TABASCO & CAMPECHE/MEXICO	WORLD WILDLIFE FUND-U.S.
BIOLOGICAL DIVERSITY CONS., MEXICO: ID OF KEY AREAS	WORLD WILDLIFE FUND-U.S.
MIGRATORY BIRD RESEARCH, SIAN KA'AN RESERVE, MEXICO	WORLD WILDLIFE FUND-U.S.
CONSER. OF MONARCH BUTTERFLY OVERWINTERING HABITATS, MEXICO	WORLD WILDLIFE FUND-U.S.
SIERRA DE MANANTLAN RESERVE & MANAGEMENT, MEXICO	WORLD WILDLIFE FUND-U.S.
SPANISH PUBLICATION OF PETERSON/CHALIF "BIRDS OF MEXICO"	WORLD WILDLIFE FUND-U.S.
MEXICAN TO 4TH PRIMATE SPECIALIZATION COURSE, BRAZIL	WORLD WILDLIFE FUND-U.S.
MONARCH BUTTERFLY CONSERVATION & RESEARCH, MEXICO	WORLD WILDLIFE FUND-U.S.
MEXICANS TO FORESTRY CONFERENCE, CHETUMAL, MEXICO	WORLD WILDLIFE FUND-U.S.
HORNED GUAN STUDY & CONSERVATION	WILDLIFE CONSERVATION INTERNATIONAL
REPRODUCTIVE BIOLOGY OF TOTOABA	WILDLIFE CONSERVATION INTERNATIONAL
MAMMALIAN SYSTEMATICS IN MEXICO	TEXAS A&M UNIVERSITY
FLORA OF PARQUE NATIONAL DE LA CASCADA DE BASASEACHIC	NEW MEXICO STATE UNIVERSITY

SUPPORT & DEVELOPMENT OF PRONATURA & AMIGOS DE SIAN KA'AN NGOS	THE NATURE CONSERVANCY
MEXICO COUNTRY PROGRAM- BAJA CALIFORNIA	CONSERVATION INTERNATIONAL
MEXICO COUNTRY PROGRAM - CHIAPAS	CONSERVATION INTERNATIONAL

NICARAGUA

ENVIRONMENTAL EDUCATION CENTER, VOLCAN MASAYA N.P., NICARAGUA	WORLD WILDLIFE FUND-U.S.

PANAMA

ASSN NACIONAL PARA LA CONSERVACION DE LA NATURALEZA (ANCON)	ANCON
MANUAL OF SEEDLINGS OF PANAMANIAN TROPICAL MOIST FOREST	FIELD MUSEUM OF NATURAL HISTORY
DEVELOPMENT NATIONAL PARK INTERPRETIVE CAPABILITY, PANAMA	U.S. NATIONAL PARK SERVICE
INTERPRETIVE PLANNING WORKSHOP	U.S. NATIONAL PARK SERVICE
MANAGERIAL GRID TRAINING	U.S. NATIONAL PARK SERVICE
PANAMANIANS TO PROTECTED AREAS MANAGEMENT SEMINAR, COSTA RICA	WORLD WILDLIFE FUND-U.S.
CONSERVATION OF COTTON TOP TAMARINS, PANAMA	WORLD WILDLIFE FUND-U.S.
AGENCY FOR INTERNATIONAL DEVELOPMENT NATURAL RESOURCES/NGO DEVELOPMENT PROGRAM, PANAMA	WORLD WILDLIFE FUND-U.S.
CONSERVATION DATA CENTER	THE NATURE CONSERVANCY & ANCON
ENVIRONMENT NGO SUPPORT & DEVELOPMENT- ANCON	THE NATURE CONSERVANCY & ANCON
BOTANICAL EXPLORATION TO CERRO TACARCUNA	MISSOURI BOTANICAL GARDEN
EXPLORATION OF BOCAS DEL TORO	MISSOURI BOTANICAL GARDEN
FOREST IRRIGATION PROJECT	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
UNDERSTORY BIRD COMMUNITY	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
UNDERSTORY HERB COMMUNITIES	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
RECRUITMENT IN CORAL REEF FISHES	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
URANID MOTH BIOLOGY	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
MARINE CRAB HATCHING & RECRUITMENT	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
CORAL REEF DISTURBANCE & RECOVERY	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
SEX. COMMUNICATION IN FROGS	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
BEHAVIOR OF CEPHALOPODS	SMITHSONIAN TROPICAL RESEARCH INSTITUTE

TROPICAL FOREST PHENOLOGY	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
EVOLUTIONARY STUDY OF ECHINODERMS	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
LAS PAVAS REFORESTATION	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
PACA DOMESTICATION	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
IGUANA MANAGEMENT PROJECT	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
SELECTION OF TREES	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
TORTOISE BEETLES OF PANAMA	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
HOMOPTERA OF PANAMA	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
BARRO COLORADO NATIONAL MON. GAMEWARDEN STAFF	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
PEMASKY PROJECT	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
PARC SOBERANIA BOUNDRY INSTALL.	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
STRI FELLOWSHIP PROGRAM	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
STRI/U PANAMA COURSE	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
SAN BLAS EDUCATION PROJECT	SMITHSONIAN TROPICAL RESEARCH INSTITUTE
BARRO COLORADO ISLAND NATURE TRAIL	SMITHSONIAN TROPICAL RESEARCH INSTITUTE

VARIOUS

CENTRAL AMERICAN MOBILE SEMINAR - CATIE	U.S. NATIONAL PARK SERVICE
MONITORING STATUS OF SPECIES IN CENTRAL AMERICA PROTECTED AREAS	U.S. NATIONAL PARK SERVICE
SUPPORT FOR TRAINING COORDINATOR FOR CATIE WILDLANDS PROGRAM	WORLD WILDLIFE FUND-U.S.
DEVELOPMENT OF GRADUATE COURSE, NATIONAL UNIVERSITY, COSTA RICA	WORLD WILDLIFE FUND-U.S.
PROJECTS IN CENTRAL AMERICA	WILDLIFE CONSERVATION INTERNATIONAL
STATUS OF THE JAGUARS 1987	TEXAS A&M UNIVERSITY
CENTRAL AMERICA & MEXICO CONIFEROUS RESOURCES COOPERATIVE	NORTH CAROLINA STATE UNIVERSITY
FLORA MESOAMERICA	MISSOURI BOTANICAL GARDEN
STUDIES IN ARACEAE OF CENTRAL AMERICA	MISSOURI BOTANICAL GARDEN

VARIOUS (PANAMA, COSTA RICA)

DYNASTINAE (BEETLE) STUDY	UNIVERSITY OF NEBRASKA STATE MUSEUM

LATIN AMERICA

VARIOUS

LATIN AMERICAN CONSERVATION EFFORTS	LATIN AMER PLNT SCIENCES NETWK

SUPPORT FOR LATIN AMERICAN NGOS	THE NATURE CONSERVANCY INTERNATIONAL
INVENTORY OF ANDES MTNS	NEW YORK BOTANICAL GARDEN
FELLOWSHIPS FOR LATIN AMERICANS IN CONSERVATION	UNIVERSITY OF FLORIDA
ENTEMOLOGICAL EXPEDITION TO BUFFER ZONES	FIELD MUSEUM NATIONAL HISTORY
STUDY OF NEOTROPICAL SAPINDACAE	NEW YORK BOTANICAL GARDEN
PLANT COLLECTIONS FOR SCREENING FOR ANTI-CANCER ACTIVITY	NEW YORK BOTANICAL GARDEN
STUDY OF NEOTROPICAL SAPINDACAE	NEW YORK BOTANICAL GARDEN
TAXONOMY & ECOLOGY OF NEOTROPICAL PLANTS	NEW YORK BOTANICAL GARDEN
NATURE TOURISM DEVELOPMENT IN LATIN AMERICA	WORLD WILDLIFE FUND-U.S.
DEVELOPMENT STRATEGIES FOR FRAGILE LANDS	AGENCY FOR INTERNATIONAL DEVELOPMENT, DEVELOPMENT ALTERNATIVE INC.
IUCN/SI LATIN AMERICA PLANTS PROJECT	SMITHSONIAN INSTITUTION
PLANT SCREENING FOR ANTI-CANCER ACTIVITY FOR NATIONAL CANCER INSTITUTE	NEW YORK BOTANICAL GARDEN
DIRECTORY NEOTROPICAL PARKS & PROTECTED AREAS	U.S. NATIONAL PARK SERVICE
FIELD MGR'S HANDBK ON STREAM QUALITY & LAND USE IMPACTS	U.S. NATIONAL PARK SERVICE
INTER-AM ENV. ED. PARK PLN PROG. WRKSHP FOR PC CO. STAFF/HCN	U.S. NATIONAL PARK SERVICE
IUCN LATIN AMERICA WETLANDS INITIATIVE	U.S. NATIONAL PARK SERVICE
LATIN AMERICAN NATIONAL PARK SUPER. TRAINING	U.S. NATIONAL PARK SERVICE
NPS/FAO/LATIN AMERICA NETWORK ON PARKS COOPERATION	U.S. NATIONAL PARK SERVICE
PARKS MAGAZINE - SPANISH EDITION	U.S. NATIONAL PARK SERVICE
STATE OF NATIONAL PARKS IN THE NEOTROPICAL REALM	U.S. NATIONAL PARK SERVICE
TRAINING MANUAL FOR MANAGEMENT OF LATIN AMERICAN WILDLAND AREAS	U.S. NATIONAL PARK SERVICE
IGUANA MANAGEMENT & CONSERVATION TRAINING WORKSHOP	WORLD WILDLIFE FUND-U.S.
RIO PLATANO/LA PLANADA/COCKSCOMB RESERVES PLANNING WORKSHOPS	WORLD WILDLIFE FUND-U.S.
FELLOWSHIPS TO LATIN AMERICAN ZOOLOGICALOGY CONGRESS/CHILE	WORLD WILDLIFE FUND-U.S.

ENVIRONMENTAL EDUCATION COURSE FOR LATIN AMERICAN YOUTHS	WORLD WILDLIFE FUND-U.S.
CONSERVATION & WILDLIFE MANAGEMENT SYMPOSIUM PROCEEDINGS PUBL/PERU	WORLD WILDLIFE FUND-U.S.
WETLANDS CONSERVATION AS BASIS OF SUSTAINABLE DEVELOPMENT MEETING/LATIN AMERICA AND CARIBBEAN	WORLD WILDLIFE FUND-U.S.
SEA TURTLE MANAGEMENT/PACIFIC COAST, LATIN AMERICA	WORLD WILDLIFE FUND-U.S.
SUPPORT TO CATIE WILDLANDS COURSE IN COSTA RICA	WORLD WILDLIFE FUND-U.S.
MIGRATORY BIRD BULLETIN FOR LATIN AMERICA	WORLD WILDLIFE FUND-U.S.
NEOTROPICAL ORNITHOLOGISTS DIRECTORY, SPANISH & PORTUGUESE TRANSLATIONS	WORLD WILDLIFE FUND-U.S.
SPANISH TRANSLATION OF THREATENED PLANTS NEWSLETTER	WORLD WILDLIFE FUND-U.S.
WILDLIFE RESOURCES MANAGEMENT & ENVIRONMENTAL EDUCATION REFUGE WORKSHOP, MEXICO	WORLD WILDLIFE FUND-U.S.
WILDLIFE MANAGEMENT. TECHNIQUES MANUAL, SPANISH PUBLICATION	WORLD WILDLIFE FUND-U.S.
PALM CONSERVATION & UTILIZATION, LATIN AMERICA AND CARIBBEAN	WORLD WILDLIFE FUND-U.S.
VIDA SILVESTRE NEOTROPICAL - LATIN AMERICAN WILDLIFE JOURNAL	WORLD WILDLIFE FUND-U.S.
TROPICAL RAINFOREST MAMMALS FIELD GUIDE, LATIN AMERICA	WORLD WILDLIFE FUND-U.S.
NOYES FELLOWSHIP NGO TRAINING AT WORLD WILDLIFE FUND-U.S.	WORLD WILDLIFE FUND-U.S.
FOREST ECOLOGY AND TREE PHYSIOLOGY	UNIVERSITY OF WISCONSIN
NATIONAL HISTORY & DIVERSITY OF AMAZONIAN HEPTOFAUNA	TEXAS A&M UNIVERSITY
ECON ASPECTS OF NATURE TOURISM IN TROPICAL FORESTS	DUKE UNIVERSITY
TAXONOMIC REVISION OF FIDDLER CRABS	UNIVERSITY OF MINNESOTA
TECH TRAIN FOR CONSERVATION DATA CENTER DIRECTORS	THE NATURE CONSERVANCY
ENVIRONMENTAL NGO SUPPORT & DEVELOPMENT	THE NATURE CONSERVANCY

WESTERN HEMISPHERE CONSERVATION DATA CENTER COORDINATORS CONFERENCE	THE NATURE CONSERVANCY

VARIOUS (BOLIVIA,PANAMA)

CONSERVATION DATA CENTERS	THE NATURE CONSERVANCY

VARIOUS (COLOMBIA, MEXICO, PERU)

LATIN AMERICA MAIZE REGENERATION PROGRAM	NORTH CAROLINA STATE UNIVERSITY

VARIOUS (COLOMBIA,PERU,COSTA RICA,MEX.)

SUPPORT FOR CONSERVATION DATA CENTERS	THE NATURE CONSERVANCY INTERNATIONAL

VARIOUS (ECUADOR AND OTHERS)

REG. COASTAL MANAGEMENT TRAINING PROGRAM - ECUADOR AND OTHER COUNTRIES	U.S. NATIONAL PARK SERVICE

VARIOUS (PANAMA, COLOMBIA, MEXICO)

BEE ECOLOGY -NATIVE & AFRICANIZED	SMITHSONIAN TROPICAL RESEARCH INSTITUTE

VARIOUS (PANAMA, PERU, BRAZIL)

RESEARCH TRAVEL	UNIVERSITY OF UTAH

VARIOUS (PERU, BOLIVIA, COSTA RICA)

SYSTEMATICS & ECOLOGY OF NEOTROPICAL VERTEBRATES	LOS ANGELES STATE UNIVERSITY MUSEUM OF NATURAL SCIENCE

VARIOUS (VENEZUELA,COLOMBIA,PERU)

IN-COUNTRY TRAINING FOR CONSERVATIONISTS	NEW YORK ZOOLOGICAL SOC/WILDLIFE CONSERVATION INTERNATIONAL

SOUTH AMERICA

ARGENTINA

ASST. TO PARK RANGER SCHOOL, BARILOCHE	U.S. NATIONAL PARK SERVICE
INTERNATIONAL SEMINAR ON NATIONAL PARKS & OTHER PROTECTED AREAS	U.S. NATIONAL PARK SERVICE
TRAIL DESIGN AND CONSTRUCTION ASSISTANCE	U.S. NATIONAL PARK SERVICE
ARGENTINIAN TO INTERNATIONAL WADER STUDY GROUP MEETING/SCOTLAND	WORLD WILDLIFE FUND-U.S.

CONSERVATION EDUCATION CURRICULUM/ARGENTINA	WORLD WILDLIFE FUND-U.S.
TEGU LIZARD (TUPINAMBIS) MANAGEMENT., ARGENTINA	WORLD WILDLIFE FUND-U.S.
RIGHT WHALE STUDIES, PENINSULA VALDES, ARGENTINA	WORLD WILDLIFE FUND-U.S.
ARGENTINE NGO PARTICIPATION IN IWC MTG, ENGLAND	WORLD WILDLIFE FUND-U.S.
CITES ADMINISTRATION & IMPLEMENTATION STUDY, ARGENTINA	WORLD WILDLIFE FUND-U.S.
TEGU LIZARD (TUPINAMBIS) BIOLOGY & MANAGMENT, ARGENTINA	WORLD WILDLIFE FUND-U.S.
BIOLOGICAL RESEARCH FOR SURI CONSERVATION IN NORTHWEST ARGENTINA	WILDLIFE CONSERVATION INTERNATIONAL
SOUTHERN SEA LION RESEARCH & CONSERVATION	WILDLIFE CONSERVATION INTERNATIONAL
POPULATION STUDIES ON PATAGONIAN PENGUIN	WILDLIFE CONSERVATION INTERNATIONAL
MEGELLANIC PENGUINS OF PUNTA TOMBO	WILDLIFE CONSERVATION INTERNATIONAL
CETACEAN NETWORK IN ARGENTINA	WILDLIFE CONSERVATION INTERNATIONAL
SUPPORT TO DEPT OF CONSERVATION CHUBUT PROVINCE	WILDLIFE CONSERVATION INTERNATIONAL

BOLIVIA

SUPPORT FOR BENI BIOSPHERE RESERVE	CONSERVATION INTERNATIONAL
MERCADO NATIONAL PARK & BIOLOGICAL RESERVE MANAGEMENT PLAN	U.S. NATIONAL PARK SERVICE
SYSTEMATICS OF SIDA SECTION OLIGENDRAE	TEXAS A&M UNIVERSITY -BRYANT
ZOOGEOG. & COEVOLUTION OF PARASITES & RODENT HOSTS IN BOLIVIA	UNIVERSITY OF NEW MEXICO -DUSZYNSKI
FLORISTIC SURVEY OF YUNGAS VALLEYS OF LA PAZ	MISSOURI BOTANICAL GARDEN
SURVEY OF MAMMALS OF BOLIVIA -GENETICS	UNIVERSITY OF NEW MEXICO -YATES
BOLIVIA NATIONAL PARKS & WILDLIFE RESERVES PUBLICATION	WORLD WILDLIFE FUND-U.S.
ENVIRONMENT EDUCATION PROGRAM AT BENI BIOSPHERE, BOLIVIA, PHASE I	WORLD WILDLIFE FUND-U.S.
PRIMATE SURVEY/BENI BIOLOGICAL STATION, BOLIVIA	WORLD WILDLIFE FUND-U.S.
CONSERVATION DATA CENTER	THE NATURE CONSERVANCY

CONSTRUCTION OF NATIONAL HISTORY MUSEUM	THE NATURE CONSERVANCY & BOLIVIAN ACADEMY OF SCIENCE
MANAGEMENT SUPPORT OF BENI BIOLOGICAL STATION	THE NATURE CONSERVANCY
BOLIVIA COUNTRY PROGRAM	CONSERVATION INTERNATIONAL

BRAZIL

SUPPORT FOR INDIGENOUS RESERVES	INSTITUTE DE ESTUDIOS AMAZONICOS
AMAZONIAN INDIAN ETHNOBOTANICAL STUDY	NEW YORK BOTANICAL GARDEN
PROJECTO FLORA AMAZONICA - PHASE IV	FIELD MUSEUM OF NATURAL HISTORY
MANAGEMENT & ADMIN OF CONSERVATION UNITS TRAINING	U.S. NATIONAL PARK SERVICE
MANAGERIAL GRID TRAINING	U.S. NATIONAL PARK SERVICE
MID-LEVEL PROTECTED AREA MANAGER TRAINING	U.S. NATIONAL PARK SERVICE
PROTECTED AREA MANAGEMENT WORKSHOP FOR PORTUGUESE SPEAKING COUNTRIES	U.S. NATIONAL PARK SERVICE
PROTECTED AREA MANAGEMENT COURSE - STATE SAO PAULO	U.S. NATIONAL PARK SERVICE
STATE OF SAO PAULO PARK OPERATIONS COURSE	U.S. NATIONAL PARK SERVICE
WILDLAND MGMGT COURSE	U.S. NATIONAL PARK SERVICE
WORKSHOP IN PROTECTED AREA MANAGEMENT	U.S. NATIONAL PARK SERVICE
SOIL PHOSPHORUS IN ABANDONED PASTURE OF EAST AMAZON	UNIVERSITY OF GEORGIA -JORDAN
MONOGRAPHS OF 3 RUST FUNGUS FAMILIES FOR FLORA NEOTROPICA	PURDUE UNIVERSITY -HENNEN
PROJECTO FLORA AMAZONICA -PHASE IV	NEW YORK BOTANICAL GARDEN -PRANCE
FIRE ANT HYBRIDIZATION	UNIVERSITY OF GEORGIA -ROSS
PHLOGENY & ID OF HONEY BEE SUBSPECIES	UNIVERSITY OF MICHIGAN AT ANN ARBOR -SMITH
RESPONSES OF PLANKTON TO ALGAE	DARTMOUTH -GILBERT
VARIABILITY OF BIOGEOCHEMISTRY OF AMAZON RIVER	UNIVERSITY OF WASHINGTON -RICHEY
TWO BRAZILIANS TO INTERNATIONAL PARKS SEMINAR	WORLD WILDLIFE FUND-U.S.
EVALUATION OF FEDERAL CONSERVATION AREAS IN AMAZON/BRAZIL	WORLD WILDLIFE FUND-U.S.
PROTECTION OF PRAIA DO SUL STATE BIOLOGICAL RESERVE/BRAZIL	WORLD WILDLIFE FUND-U.S.

ANIMAL PRODUCTS TRADE STUDY IN BRAZILIAN AMAZON	WORLD WILDLIFE FUND-U.S.
NATIVE PALM FOREST MANAGEMENT/BRAZILIAN AMAZON	WORLD WILDLIFE FUND-U.S.
ECONOMIC ENTERPRISES IMPACT/GRANDE CARAJAS, BRAZIL	WORLD WILDLIFE FUND-U.S.
AIRPORT SURVEYS OF WILD ANIMAL TRADE/BRAZIL	WORLD WILDLIFE FUND-U.S.
INSTITUTIONAL SUPPORT FOR FUNATURA/BRAZIL	WORLD WILDLIFE FUND-U.S.
FRUITS OF THE AMAZON FOREST BOOK/BRAZIL	WORLD WILDLIFE FUND-U.S.
BRAZILIAN FELLOWSHIP TO JERSEY PRESERVATION TRUST TRAIN PROG	WORLD WILDLIFE FUND-U.S.
EQUIPMENT FOR ECOLOGY DEPT OF INPA/BRAZIL	WORLD WILDLIFE FUND-U.S.
BIOGEOCHEMISTRY IN TROPICAL FORESTS	WORLD WILDLIFE FUND-U.S.
COMMUNITY BABOON (HOWLER) SANCTUARY/BELIZE	WORLD WILDLIFE FUND-U.S.
HUMAN IMPACT & CONSERVATION OF AQUATIC ECOSYSTEMS/BRAZIL	WORLD WILDLIFE FUND-U.S.
PROTECTION OF SPIX MACAW, BRAZIL	WORLD WILDLIFE FUND-U.S.
ATLANTIC FOREST BIRD SURVEY/BRAZIL	WORLD WILDLIFE FUND-U.S.
BUILDING LOCAL SUPPORT FOR PROTECTED AREAS, BRAZIL	WORLD WILDLIFE FUND-U.S.
FILM ON CONSERV. NEEDS, SERRA DO MAR, ATLANTIC FOREST, BRAZIL	WORLD WILDLIFE FUND-U.S.
PATTERNS OF MAMMALIAN DIVERSITY, ATLANTIC FOREST, BRAZIL	WORLD WILDLIFE FUND-U.S.
LA PLATA RIVER DOLPHIN CONSERVATION, BRAZIL	WORLD WILDLIFE FUND-U.S.
PRIMATE COMMUNITIES CONSERVATION, BRAZILIAN AMAZON	WORLD WILDLIFE FUND-U.S.
GOLDEN LION TAMARIN REINTRODUCTION PROGRAM, BRAZIL	WORLD WILDLIFE FUND-U.S.
HYACINTH MACAW SURVEY, BRAZIL	WORLD WILDLIFE FUND-U.S.
BRAZILIAN TO IUCN/SSC MEETING, VENEZUELA	WORLD WILDLIFE FUND-U.S.
SURVEY OF CERRADO REGION, BRAZIL	WORLD WILDLIFE FUND-U.S.
SERRA DA MANTIQUEIRA MANAGEMENT PLAN, BRAZIL	WORLD WILDLIFE FUND-U.S.
MURICI LAND PURCHASE, EAST BRAZIL	WORLD WILDLIFE FUND-U.S.

BRAZILIAN PRIMATOLOGIST FELLOWSHIP, UNIVERSITY OF FLORIDA	WORLD WILDLIFE FUND-U.S.
FOREST ECOSYSTEMS EDUCATION PROGRAM, PARANA, BRAZIL	WORLD WILDLIFE FUND-U.S.
DECIDUOUS FOREST BIRD SURVEYS, CENTRAL BRAZIL	WORLD WILDLIFE FUND-U.S.
IBDF SUPPORT IN BRAZIL: NATIONAL PARKS CAMPAIGN AND BIRD BANDS	WORLD WILDLIFE FUND-U.S.
MINIMUM CRITICAL SIZE PROJECT, BRAZILIAN AMAZON	WORLD WILDLIFE FUND-U.S.
TRAINING OF CONSERVATION FELLOW	NATURE CONSERVANCY & FUNATURA

CHILE

INTERPRETATION & ENVIRONMENTAL EDUCATION WORKSHOP	U.S. NATIONAL PARK SERVICE
SYSTEMATICS OF MYTILUS (COLLABORATIVE RESEARCH)	SUNY STONEY BROOK -KOEHN
TAXA OF NOTHRIDEA (MITES)	SUNY -NORTON
SYSTEMATICS & BIOGEOG. OF CHILEAN SPIDERS	AMERICAN MUSEUM OF NATURAL HISTORY -PLATNIC
FLAMINGO CONSERVATION IN NORTHERN CHILE	WILDLIFE CONSERVATION INTERNATIONAL
PATAGONIA RESEARCH	IOWA STATE UNIVERSITY

COLOMBIA

TRAINING FOR COLOMBIANS, SPECIMEN COLLECTIONS	MISSOURI BOTANICAL GARDEN
PROTECTED AREA MANAGEMENT TRAINING FOR MID-LEVEL PARK MANAGERS	U.S. NATIONAL PARK SERVICE
COTTON TOP TAMARIN SURVEY/COLOMBIA	WORLD WILDLIFE FUND-U.S.
PALM RESEARCH & COLLECTING IN COLOMBIA	WORLD WILDLIFE FUND-U.S.
PODOCNEMIS TURTLE CONSERVATION & MANAGEMENT/COLOMBIA	WORLD WILDLIFE FUND-U.S.
ORCHID CONSERVATION/COLOMBIAN ANDES	WORLD WILDLIFE FUND-U.S.
LA PLANADA EDUCATION PROJECT/COLOMBIA	WORLD WILDLIFE FUND-U.S.
TRANSLATION OF BIRDS OF COLOMBIA FOR SPANISH EDITION	WORLD WILDLIFE FUND-U.S.
ALTO QUINDIO RESERVE EDUCATION CENTER, COLOMBIA	WORLD WILDLIFE FUND-U.S.

COTTON TOP TAMARIN CAPTIVE BREED MANAGEMENT & TRAINING PROGRAM, COLOMBIA	WORLD WILDLIFE FUND-U.S.
FLORISTIC INVENTORY, LA PLANADA RESERVE, COLOMBIA	WORLD WILDLIFE FUND-U.S.
FIELD TRAINING FOR COLOMBIAN FIELD PRIMATOLOGIST	WORLD WILDLIFE FUND-U.S.
PRIMATE RESEARCH & CONSERVATION APAPORIS RIVER, COLOMBIA	WILDLIFE CONSERVATION INTERNATIONAL
CONSERVAITON DATA CENTER	THE NATURE CONSERVANCY & FUNDACION NATURA
NGO INSTITUTIONAL SUPPORT -FUNDACION NATURA	THE NATURE CONSERVANCY
ACQUISITION & MANAGEMENT OF CARPANTA RESERVE	THE NATURE CONSERVANCY & FUNDACION NATURA
UTRIA NATIONAL PARK OPERATING PLAN	THE NATURE CONSERVANCY & FUNDACION NATURA
TRAINING ZOOLOGICALOGY FELLOW - CORP. AUTONOMA DE VALLE DE CAUCA	THE NATURE CONSERVANCY & CVC
FLORA ANTIOQUIA OF COLOMBIA	MISSOURI BOTANICAL GARDEN

ECUADOR

TRAINING FOR ECUADORIAN SCIENTISTS	OHIO STATE UNIVERSITY/FUNDACION NATURA
ECON BOTANY & FLORA OF LOWLAND TROPICAL FOREST	NEW YORK BOTANICAL GARDEN
ENVIRONMENTAL EDUCATION (EDUNAT II)	FUNDACION NATURA
BOTANICAL SURVEY OF EASTERN ECUADOR	NEW YORK BOTANICAL GARDEN
DARWIN STATION, GALAPAGOS	SMITHSONIAN INSTITUTION
GALAPAGOS NATURAL HISTORY MUSEUM PLANNING	U.S. NATIONAL PARK SERVICE
TRAIL DESIGN & EROSION CONTROL ASST. - GALAPAGOS ISLANDS	U.S. NATIONAL PARK SERVICE
MOLECULAR SYSTEMATICS OF A LEGUME TRIBE	FELLOWSHIPS -LEVIN
SYSTEMATICS OF SIDA SECTION OLIGENDRE	TEXAS A&M UNIVERSITY -BRYANT
CHEMOSYTEMATICS & POLLINATION OF GONGORA (ORCHID)	UNIVERSITY OF FLORIDA, FLORIDA STATE MUSEUM - WILLIAMS
ECOLOGY & BEHAVIOR OF DARWIN'S FINCHES ON GALAPAGOS ISLAND	PRINCETON UNIVERSITY -GRANT
ECONOMIC EFFICIENCY UNDER SOCIOENVIRONMENTAL CRITERIA/ECUADOR	WORLD WILDLIFE FUND-U.S.

DARK PUMPED PETREL CONSERVATION/GALAPAGOS	WORLD WILDLIFE FUND-U.S.
PASOCHOA NATURE RESERVE/EQUADOR	WORLD WILDLIFE FUND-U.S.
CUYABENO WILDLIFE PRODUCTION RESERVE MANAGEMENT PLAN, ECUADOR	WORLD WILDLIFE FUND-U.S.
CONS. OF PINZON ISLAND GIANT TORTOISE	WILDLIFE CONSERVATION INTERNATIONAL
STUDY OF EGG LOSS AMONG ALBATROSS AT GALAPAGOS	WILDLIFE CONSERVATION INTERNATIONAL
BIRD STUDY IN PODOCARPUS NATIONAL PARK	WILDLIFE CONSERVATION INTERNATIONAL
GALAPAGOS ISLANDS CAMPAIGN	THE NATURE CONSERVANCY
TREES OF AMAZONIAN ECUADOR	MISSOURI BOTANICAL GARDEN
FLORA OF UPPER RIO NAPO	MISSOURI BOTANICAL GARDEN
LAURACEAE OF ECUADOR	MISSOURI BOTANICAL GARDEN
INTERPRETATIVE PAMPHLET	PEACE CORPS

FRENCH GUIANA

REVIEW OF CITES CONTROLS, FRENCH GUIANA	WORLD WILDLIFE FUND-U.S.

GUYANA

GUYANA PLANT COLLECTION	NEW YORK BOTANICAL GARDEN
TAXONOMY OF THEACEAE IN GUYANA	NEW YORK BOTANICAL GARDEN
GUYANA PLANT COLLECTION	NEW YORK BOTANICAL GARDEN
FLORISTIC MONOGRAPH OF HYPOCREALES (FUNGI) IN AMERICAN TROPICS	NEW YORK BOTANICAL GARDEN

PARAGUAY

AMBURANA CAERENSIS MANAGEMENT PROJECT	PEACE CORPS
CONSERVATION OF CHACOAN PECCARY	WILDLIFE CONSERVATION INTERNATIONAL
CONSERVATION DATA CENTER	THE NATURE CONSERVANCY& AG MINISTR

PERU

SUPPORT FOR TRAINING OF PERUVIAN SCIENTISTS	WORLD WILDLIFE FUND-U.S.
STUDY OF MUSTACHE TAMARINS IN PERU	CHICAGO ZOOLOGICAL SOCIETY
YANACHAGA/CHEMILLEN NATIONAL PARK	THE NATURE CONSERVANCY INTERNATIONAL
MID-LEVEL PROTECTED AREAS MANAGERS COURSE	U.S. NATIONAL PARK SERVICE
ROLE OF AGGRESSION IN AMAZON BIRD COMMUNITIES (COLLABORATIVE RESEARCH)	UNIVERSITY OF ILLINOIS, URBANA -ROBINSON

ROLE OF AGGRESSION IN AMAZON BIRD COMMUNITIES (COLLABORATIVE RESEARCH)	PRINCETON UNIVERSITY -TERBORGH
SYSTEMATICS OF SIDA SECTION OLIGENDRAE	TEXAS A&M UNIVERSITY -BRYANT
SYSTEMATICS OF GENUS AGYLLA (LEPIDOPTERA)	UNIVERSITY OF TEXAS AT AUSTIN -GILBERT
PHLOGENETIC AFFINITIES WITHIN BLACKBIRD GENUS AGELAIUS	FIELD MUSEUM OF NATURAL HISTORY
ETHNOBOTANY OF AMAZONIAN JIVARO: MED. FLORA & FOLK TAXONOMY	WASHINGTON UNIVERSITY -LEWIS
PUBLIC AWARENESS/EDUCATION CAMPAIGN, RIO ABISEO NATIONAL PARK, PERU	WORLD WILDLIFE FUND-U.S.
MIGRATORY & RESIDENT BIRD WORKSHOP, PERU	WORLD WILDLIFE FUND-U.S.
ETHNOBOTANY OF THE AMAZONIAN JIVARO, PERU	WORLD WILDLIFE FUND-U.S.
CERROS DE AMOTAPE NATIONAL PARK OPERATIONAL PLAN, PERU	WORLD WILDLIFE FUND-U.S.
TRAINING & SUPPORT FOR DEVELOPMENT OF APECO-RED, PERU	WORLD WILDLIFE FUND-U.S.
MANAGEMENT OF LAKE TITICACA RESERVE, PERU	WORLD WILDLIFE FUND-U.S.
STUDENT RESEARCH & TRAINING, MANU NATIONAL PARK, PERU	WORLD WILDLIFE FUND-U.S.
TRAINING WORKSHOPS FOR PARK OFFICIALS, PERU	WORLD WILDLIFE FUND-U.S.
PUBLICATION OF MIGRANT BIRD STUDIES, MEJIA LAGOONS, PERU	WORLD WILDLIFE FUND-U.S.
TEACHERS ENVIRONMENTAL EDUCATION COURSE, PERU	WORLD WILDLIFE FUND-U.S.
PACAYA SAMIRIA RESERVE TRAINING WORKSHOP, PERU	WORLD WILDLIFE FUND-U.S.
CONSERVATION OF PUNTA SAN JUAN, PERU	WILDLIFE CONSERVATION INTERNATIONAL
ECOLOGY OF NEOTROPICAL PARROT COMMUNITY	WILDLIFE CONSERVATION INTERNATIONAL
CONSERVATION DATA CENTER	THE NATURE CONSERVANCY & UNIVERSITY OF LA MOLINA
CONSERVATION DATA CENTER TECH ADVISOR	THE NATURE CONSERVANCY & UNIVERSITY OF LA MOLINA
YANACHAGA/CHEMILLEN NATIONAL PARK	THE NATURE CONSERVANCY & FPCN
IN-COUNTRY NGO TECH ADVISOR	THE NATURE CONSERVANCY & FPCN

CONSERVATION NGO SUPPORT -FPCN, APECO	THE NATURE CONSERVANCY
SUPPORT FOR PERUVIAN NGOS	WILDLIFE CONSERVATION INTERNATIONAL
TROPICAL BOTANY	MISSOURI BOTANICAL GARDEN

SURINAME

SURINAME WILDLIFE TRADE PERMITS	WORLD WILDLIFE FUND-U.S.
SURINAMESE TO THIRD WETLANDS CONVENTION, CANADA	WORLD WILDLIFE FUND-U.S.

VARIOUS

POST-DOCTORAL TRAINING FOR RESEARCH IN AMAZON	MISSOURI BOTANICAL GARDEN
LAND USE IN AMAZON BASIN: WHAT WORKS?	WOODS HOLE RESEARCH CENTER
TROPICAL RAINFOREST INVENTORY	NEW YORK BOTANICAL GARDEN
NEOTROPICAL LOWLAND RESEARCH PROGRAM	SMITHSONIAN INSTITUTION
TAXON. & BIOLOGICAL STUDY OF LACCARIA IN SOUTH AMERICA	FIELD MUSEUM OF NATURAL HISTORY
TRAFFIC (SOUTH AMERICA) SUPPORT	WORLD WILDLIFE FUND-U.S.
CAIMAN CONSERVATION PROGRAM, CENTRAL SOUTH AMERICA	WORLD WILDLIFE FUND-U.S.
PROJECTS IN SOUTH AMERICA	WILDLIFE CONSERVATION INTERNATIONAL

VARIOUS (ECUADOR,COLOMBIA)

AWA INDIAN BIOS RESERVE PLANNING MISSION/ECUADOR & COLOMBIA	WORLD WILDLIFE FUND-U.S.

VARIOUS (PERU, BOLIVIA)

BIODIVERSITY IN LATIN AMERICA (BIOLAT)	SMITHSONIAN INSTITUTION

VARIOUS (PERU, CHILE)

BIOGEOG & EVOLUTION OF LOMAS FORMATIONS OF PERU & CHILE	FIELD MUSEUM OF NATURAL HISTORY

VARIOUS (PERU,ECUADOR,BOLIVIA)

PROTOCOL FOR BIODIVERSITY INVENTORY	SMITHSONIAN INSTITUTION

VARIOUS (SURINAM,GUYANA,FR. GUIANA)

FLORA OF THE GUIANAS	SMITHSONIAN INSTITUTION

VENEZUELA

GRANT FROM JESSIE SMITH NOYES FOUNDATION	VENEZUELAN FOUNDATION CONSERVATION BIODIVERSITY

LECTURE SERIES ON PARK MANAGEMENT	U.S. NATIONAL PARK SERVICE
NATIONAL PARK SYSTEM PLAN	U.S. NATIONAL PARK SERVICE
INFLUENCE OF PREDATION ON MAYFLY ASSEMBLEDGES	UNIVERSITY OF MARYLAND, COLLEGE PARK -ALLAN
ECOLOG. STUDIES OF HEMIEPIPHYTES	UNIVERSITY OF FLORIDA -PUTZ
DEMOGRAPHY & DISPERSAL IN COOPERATIVE SOCIETIES	PURDUE UNIVERSITY -RABENOLD
VENEZUELAN TO CROCODILE SPECIALIST GROUP MEETING/QUITO	WORLD WILDLIFE FUND-U.S.
CAIMAN STUDIES, EL PINERO RANCH, VENEZUELA	WORLD WILDLIFE FUND-U.S.
EL PINERO RANCH PROJECT, VENEZUELA	WORLD WILDLIFE FUND-U.S.
STUDY OF OILBIRDS	WILDLIFE CONSERVATION INTERNATIONAL
CONS.& TRAINING PROGRAMS IN VENEZUELA	WILDLIFE CONSERVATION INTERNATIONAL
DISTRIB. & HABITAT USE OF SPECTACLED BEARS IN VENEZUELA	WILDLIFE CONSERVATION INTERNATIONAL
HABITAT USE BY CROCODILE & CAIMA ALONG COAST	WILDLIFE CONSERVATION INTERNATIONAL
ORINOCO RIVER ECOSYSTEM STUDIES	UNIVERSITY OF COLORADO
TRAINING CONSERVATION FELLOW - BIOMA	THE NATURE CONSERVANCY

WORLDWIDE

VARIOUS

IUCN BOTANICAL GARDEN PROGRAM	IUCN
STIPENDS FOR DEVELOPING COUNTRY CONSERVATIONISTS	NEW YORK ZOOLOGICAL SOC/WILDLIFE CONSERVATION INTERNATIONAL
INSTITUTE FOR ECONOMIC BOTANY	NEW YORK BOTANICAL GARDEN
INTERNATIONAL SPECIES INVENTORY SYSTEM DATABASE	AM ASSN ZOOLOGICAL PARKS & AQUARIUMS
TRAINING FOR INDIGENOUS SCIENTISTS & WILDLIFE MANAGERS	NEW YORK ZOOLOGICAL SOC/WILDLIFE CONSERVATION INTERNATIONAL
INTERNATIONAL TRAINING PRGRM FOR PROPAGATION OF ENDANGERED SPECIES	WILDLIFE PRESERVATION TRUST INTERNATIONAL
SUPPORT FOR CITES IMPLEMENTATION	CONSERVATION TREATY SUPPORT FUND
BOTANIC GARDENS CONSERVATION SECRETARIAT EX-SITU CONSERVATION PROGRAMS	INTERNATIONAL UNION FOR THE CONSERVATION OF NATURE & NATURAL RESOURCES
INTERNATIONAL DIALOGUE ON PLANT GENETIC RESOURCES PROJECT	KEYSTONE CENTER

PROGRAM FOR STUDIES IN TROPICAL CONSERVATION	UNIVERSITY OF FLORIDA
INSTITUTE OF ECON BOTANY RESEARCH PROGRAM	NEW YORK BOTANICAL GARDEN
ANNOTATED BIBLIOG. ON ECONOMIC PALMS	NEW YORK BOTANICAL GARDEN
MEETINGS AND TRAVEL	MISSOURI BOTANICAL GARDEN
PROGRAMS IN INTERNATIONAL ENVIRONMENT MANAGEMENT	CONSERVATION FOUNDATION, DUKE UNIVERSITY
INSTITUTE OF ECON BOTANY RESEARCH PROGRAM	NEW YORK BOTANICAL GARDEN
MERCK CHEMICAL PROJECT	NEW YORK BOTANICAL GARDEN
SUPPORT OF BABASSU PALM PROJECT	NEW YORK BOTANICAL GARDEN
FIELD STUDIES OF PIRAMNIA	NEW YORK BOTANICAL GARDEN
ANNOTATED BIBLIOG. ON ECONOMIC PALMS	NEW YORK BOTANICAL GARDEN
EDIBLE STARCH-PRODUCING CANNA GERMPLASM COLLECTING	NEW YORK BOTANICAL GARDEN
WORLDWIDE COLLECTION OF FISHES	GULF COAST RESEARCH LABORATORY MUSEUM
BIOLOGICAL DIVERSITY CONSERVATION IN DEVELOPMENT	U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
ENVIRONMENTAL PLANNING & MANAGEMENT	INTERNATIONAL INSTITUTE FOR ENVIRONMENT & DEVELOPMENT
BIODIVERSITY TECHNICAL SUPPORT	INTERNATIONAL INSTITUTE FOR ENVIRONMENT & DEVELOPMENT
U.S.AGENCY FOR INTERNATIONAL DEVELOPMENT/PEACE CORPS BIODIVERSITY INITIATIVE	PEACE CORPS
CONSULTATIVE GROUP ON BIODIVERSITY	FOUNDATION CONSULTATIVE GROUP ON BIODIVERSITY
ECON INCENTIVES FOR CONSERVATION BIODIVERSITY	INTERNATIONAL UNION FOR THE CONSERVATION OF NATURE AND NATURAL RESOURCES
TECHNIQUES FOR MONITORING & EVALUATING BIODIVERSITY CONSERVATION EFFORTS	NATIONAL RESEARCH COUNCIL
SUPPORT TO INTERNATIONAL BOARD PLANT GENETIC RESOURCES	U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT
SCIENCE ADVISOR'S SMALL GRANTS PROGRAM	AGENCY FOR INTERNATIONAL DEVELOPMENT
RESOURCES SUPPORT AGREEMENT WITH U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT	U.S. NATIONAL PARK SERVICE
WILDLIFE CONSERVATION & MANAGEMENT TRAINING PROGRAM	SMITHSONIAN INSTITUTION - NATIONAL ZOO

EVOLUTION OF TERRESTRIAL ECOSYSTEMS	SMITHSONIAN INSTITUTION
ACTION PLAN FOR U.S. STRATEGY ON BIOLOGICAL DIVERSITY	U.S. NATIONAL PARK SERVICE
BIOLOGICAL SURVEYS IN BIOSPHERE RESERVES	U.S. NATIONAL PARK SERVICE
CORAL REEF AUDIO-VISUAL PROGRAM	U.S. NATIONAL PARK SERVICE
FOURTH WORLD WILDERNESS CONGRESS	U.S. NATIONAL PARK SERVICE
INFORMATION EXCHANGE WITH OTHER COUNTRIES & REFERENCE LIBRARY	U.S. NATIONAL PARK SERVICE
INTERNATIONAL NETWORK OF COASTAL ZONE PLANNING & MANAGEMENT	U.S. NATIONAL PARK SERVICE
INTERNATIONAL SEMINAR: ARID & SEMI-ARID LANDS AND PROTECTED AREAS AND PARKS	U.S. NATIONAL PARK SERVICE
INTERNATIONAL SEMINAR: PARKS & EQUIVALENT RESERVES	U.S. NATIONAL PARK SERVICE
INTERNATIONAL SURVEY OF BIOSPHERE RESERVES	U.S. NATIONAL PARK SERVICE
MARINE & COASTAL PARKS INTERNATIONAL SEMINAR	U.S. NATIONAL PARK SERVICE
PLANNER'S GUIDE TO COASTAL AREA MANAGEMENT & PLANNING (CAMP)	U.S. NATIONAL PARK SERVICE
PROTECTED AREA INFORMATION COLLECTION & EXCHANG	U.S. NATIONAL PARK SERVICE
SYMPOSIUM ON BIOSPHERE RESERVES AT 4TH WORLD WILDERNESS CONGRESS	U.S. NATIONAL PARK SERVICE
TRAINING FOR FOREIGN PARK & CONSERVATION AREA PROFESSIONALS	U.S. NATIONAL PARK SERVICE
COOPERATION ON WORLD CULTURAL HERITAGE & AND NATURAL HERITAGE	U.S. NATIONAL PARK SERVICE
U.S. REELECTION TO WORLD HERITAGE CONVENTION	U.S. NATIONAL PARK SERVICE
YOUTHS FOR ENVIRONMENT AND SERVICE PLANNING MEETING	WORLD WILDLIFE FUND-U.S.
SUPPORT FOR SCOPE	WORLD WILDLIFE FUND-U.S.
SUPPORT FOR IUCN/WORLD WILDLIFE FUND PLANT PROGRAM	WORLD WILDLIFE FUND-U.S.
ICBP SUPPORT	WORLD WILDLIFE FUND-U.S.
INTERNATIONAL COMMITTEE FOR CONSERVATION & CARE OF CHIMPS SUPPORT	WORLD WILDLIFE FUND-U.S.
IUCN PLANT ADVISORY GROUP MEETING/TRAVEL GRANTS	WORLD WILDLIFE FUND-U.S.

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SUPPORT FOR 4th WORLD WILDLIFE WILDERNESS CONGRESS, COLORADO	WORLD WILDLIFE FUND-U.S.
PRIMATE ACTION FUND	WORLD WILDLIFE FUND-U.S.
TRAVEL GRANTS TO CITES MEETING, CANADA	WORLD WILDLIFE FUND-U.S.
WORKSHOP ON POPULATION GENETICS APPLICATION TO CONSER	WORLD WILDLIFE FUND-U.S.
INTERNATIONAL CONSULTANCIES	WORLD WILDLIFE FUND-U.S.
PUBLICATION OF TRAFFIC BULLETIN/WTMU	WORLD WILDLIFE FUND-U.S.
IUCN SUPPORT	WORLD WILDLIFE FUND-U.S.
WORLDWIDE COLLECTION OF EPHEMEROPTERA (INSECTA)	FLORIDA A&M UNIVERSITY
SYSTEMATICS ZOOGEOGRAPHY & PHYLOGENETICS OF SKATES	TEXAS A&M UNIVERSITY
EVOLUTIONARY GENETICS OF VERTEBRATES	TEXAS A&M UNIVERSITY
POST-DOCS IN TROPICAL BOTANY	MISSOURI BOTANICAL GARDEN

VARIOUS (AFRICA AND ASIA)

ANALYSIS OF ENDANGERED MAMMALS POPULATION MANAGEMENT	DUKE UNIVERSITY

VARIOUS (ECUADOR, SRI LANKA, THAILAND)

COASTAL RESOURCES MANAGEMENT	UNIVERSITY OF RHODE ISLAND

VARIOUS (LATIN AMERICA, AFRICA)

WILDLANDS AND HUMAN NEEDS	WORLD WILDLIFE FUND-U.S.

VARIOUS (PANAMA, VENEZUELA, NEPAL, BRAZIL, SEYCHELLES, PERU)

INTERNATIONAL ENVIRONMENTAL SCIENCES PROGRAM	SMITHSONIAN INSTITUTION

VARIOUS (PANAMA, MALAYSIA)

FOREST DYNAMICS PROJECT	SMITHSONIAN TROPICAL RESEARCH INSTITUTE

VARIOUS (PHILIPPINES, COSTA RICA)

FISHERIES STOCK ASSESSMENT	UNIVERSITY OF MARYLAND, UNIVERSITY OF WASHINGTON, UNIVERSITY OF RHODE ISLAND, UNIVERSITY OF COSTA RICA, UNIVERSITY OF PHILIPPINES

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